AL-BAHER

Mathematics

Primary





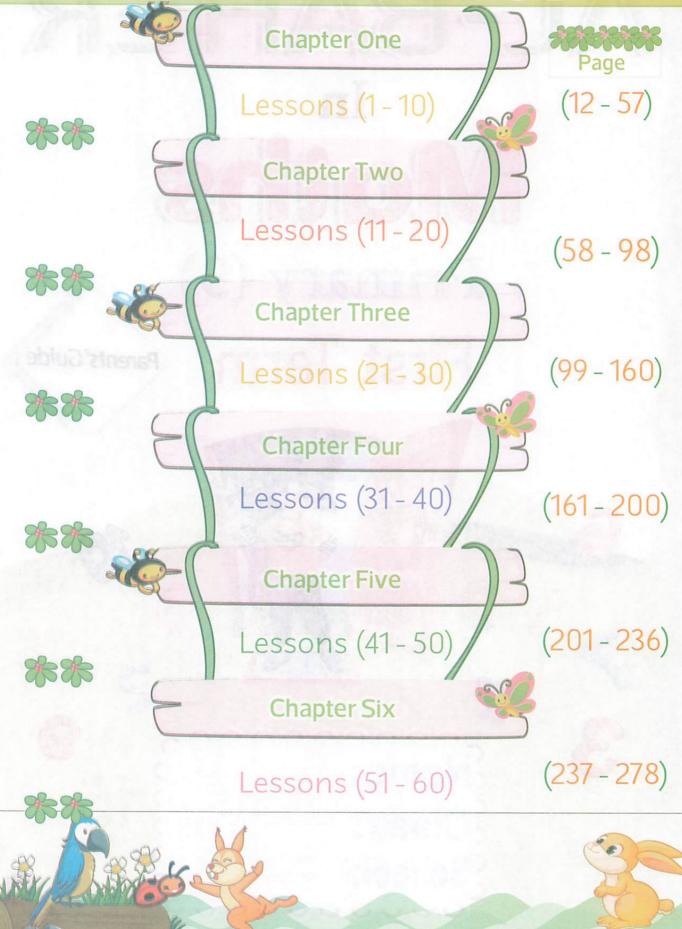
TON AND TE

First Term

Parents' Guide With answers

2023

Contents



Student's Resources

Sunday

Days of the Week



1 week = 7 days

Saturday rursday Mednesday

Tuesday





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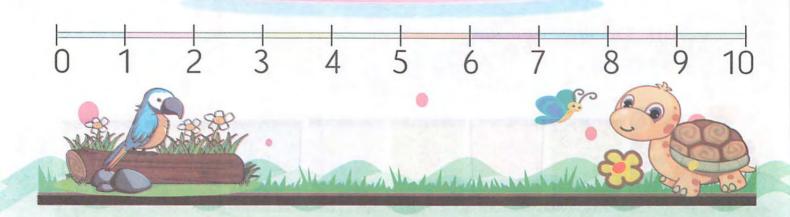




The 120 Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

Number Line



Muitiplication Tables

Any number × zero =Zero

Any number × 1 =The same number



 $4 \times 1 = 4$

5×1=5 $5 \times 2 = 10$

 $1 \times 2 = 2$ $1 \times 3 = 3$ $1 \times 4 = 4$

1×1=1

 $2 \times 3 = 6$ $2 \times 4 = 8$

2×1=2

 $2 \times 2 = 4$

 $4 \times 3 = 12$ $3 \times 3 = 9$ $3 \times 4 = 12$ $4 \times 4 = 16$ $5 \times 3 = 15$ $5 \times 4 = 20$ $5 \times 5 = 25$

 $1 \times 5 = 5$ $1 \times 6 = 6$ $2 \times 5 = 10$ $2 \times 6 = 12$ $3 \times 5 = 15$ $3 \times 6 = 18$

 $3 \times 1 = 3$

 $3 \times 2 = 6$

 $4 \times 5 = 20$ 4×6=24

 $4 \times 2 = 8$

 $5 \times 6 = 30$

 $1 \times 7 = 7$ $1 \times 8 = 8$

 $2 \times 7 = 14$ $2 \times 8 = 16$ $3 \times 7 = 21$ $3 \times 8 = 24$ $4 \times 7 = 28$ $4 \times 8 = 32$ $5 \times 7 = 35$ $5 \times 8 = 40$ $5 \times 9 = 45$

 $1 \times 9 = 9$ 1×10=10 $2 \times 9 = 18$ $2 \times 10 = 20$ $3 \times 9 = 27$ $3 \times 10 = 30$ $4 \times 9 = 36$ $4 \times 10 = 40$

5×10=50 5×11=55

1×11=11 $1 \times 12 = 12$

2×11=22 $2 \times 12 = 24$

 $3 \times 11 = 33$ $3 \times 12 = 36$ $4 \times 11 = 44$ $4 \times 12 = 48$

 $5 \times 12 = 60$

6×1=6

 $6 \times 2 = 12$

 $6 \times 3 = 18$

 $6 \times 4 = 24$

 $6 \times 5 = 30$ $6 \times 6 = 36$

 $6 \times 7 = 42$

 $6 \times 8 = 48$

 $6 \times 9 = 54$

6×10=60

6×11=66

 $6 \times 12 = 72$

 $7 \times 1 = 7$ $7 \times 2 = 14$

 $7 \times 3 = 21$

 $7 \times 4 = 28$

 $7 \times 5 = 35$ $7 \times 6 = 42$

 $7 \times 7 = 49$

 $7 \times 8 = 56$

 $7 \times 9 = 63$ $7 \times 10 = 70$

 $7 \times 11 = 77$ $7 \times 12 = 84$

 $8 \times 1 = 8$

 $8 \times 2 = 16$

 $8 \times 3 = 24$ $8 \times 4 = 32$

 $8 \times 5 = 40$

 $8 \times 6 = 48$

 $8 \times 7 = 56$

 $8 \times 8 = 64$

 $8 \times 9 = 72$

 $8 \times 10 = 80$ $8 \times 11 = 88$

 $8 \times 12 = 96$

9×1=9 $9 \times 2 = 18$

 $9 \times 3 = 27$

 $9 \times 4 = 36$

 $9 \times 5 = 45$

 $9 \times 6 = 54$ $9 \times 7 = 63$

 $9 \times 8 = 72$

 $9 \times 9 = 81$

 $9 \times 10 = 90$ $9 \times 11 = 99$

 $9 \times 12 = 108$

 $10 \times 1 = 10$

 $10 \times 2 = 20$ $10 \times 3 = 30$

 $10 \times 4 = 40$ $10 \times 5 = 50$

 $10 \times 6 = 60$

 $10 \times 7 = 70$

 $10 \times 8 = 80$

 $10 \times 9 = 90$ 10×10=100

10×11=110

10×12=120





January



February



March

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
A		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

	_		- 40	-		
Sat	Sun	Mon	Tues	Wed	Thurs	Fri
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



April



May



June

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		





July

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						



August

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
20	10	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	190	20
21	22	23	24	25	26	27
28	29	30	31			



Sat	Sun	Mon	Tues	Wed	Thurs	Fri
				95	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	



October

1	Sat	Sun	Mon	Tues	Wed	Thurs	Fri
							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					



Sat	Sun	Mon	Tues	Wed	Thurs	Fri
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



December

Sat	Sun	Mon	Tues	Wed	Thurs	Fri
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

General Revision

Revision (1)

1 Find the result:



2 Compare using (>, < or =):

139	452
652	231
295	295
324	300 + 20 + 4

3 Complete in the same pattern:



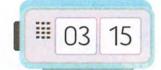
Nour divided a pizza into 4 parts. She gave her brother one part.

Write the fraction that represents the left parts.

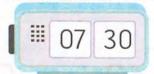
5

Draw the hands that show the time:













6 Complete:

- 1 The square has _____ sides ____ in length.
- 2 The rhombus has _____ sides _____ in length.
- 3) Five hundred, thirty-four (in standard form)
- 4 324= Hundreds, Tens, Ones.

Revision Revision (2) Find the result: 753 519 897 129 238 337 438 Arrange the following: Ascendingly: Descendingly:.. Answer the following:

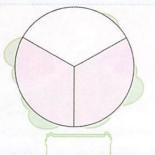
A fruitseller bought 65 kg of bananas and 48 kg of oranges.

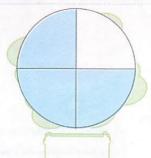
Find the total weight of the fruits.

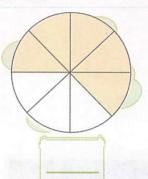




Write the fraction for the colored part of the shape:





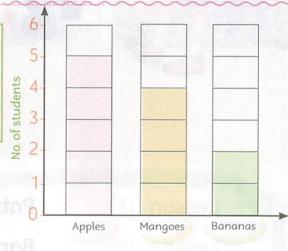






No. of rows: _____, No. of columns: ____ Name of the array = ____ The sum by rows = ___ The sum by columns = ___

B How many more students prefer apples than who prefer bananas?



6 Count, then write the total amounts:

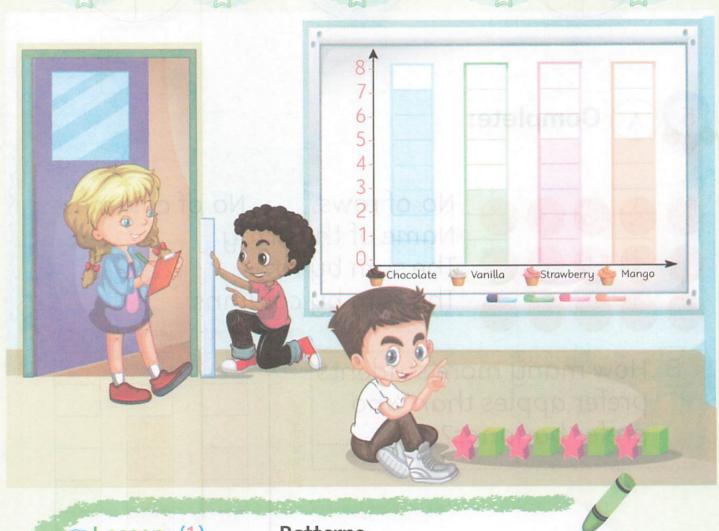








Chapter One



- Lesson (1)
- Lesson (2)
- Lesson (4)
- Lessons (5 7)
- Lessons (9,10)

- **Patterns**
- Bar graph
- Pictograph
- Line plot
- Measuring lengths in centimeter and meter
- Measuring lengths in millimeter
- Measuring lengths

Chapter One Outcomes

🗎 Lesson (1)

- Learn the routines of the daily math block. Determine the next two elements in a pattern.
- Identify repeating and arithmetic patterns.

Lesson (2)

- Identify elements of a bar graph.
- Organize, represent, and analyze data from a bar graph.

Lesson (3)

- Identify the elements of a pictograph. Create a pictograph from a data table.
- Explain the meaning of scale in a pictograph. Determine an appropriate graphing question.

Lesson (4)

- Identify the elements of a line plot. Create a line plot.
- Collect and record data.

💥 Lessons (5 - 7)

- Discuss centimeter and meter measurement.
- Determine whether to use centimeters or meters to measure length.
- Measure the length of objects in centimeters and meters.
- Use measurement data to create a class line plot.
- Estimate the length of objects in centimeters and meters.
- Demonstrate understanding of the relationship between centimeters and meters.

Lesson (8)

- Demonstrate understanding the centimeters are composed of millimeters.
- Determine whether to use centimeters or meters to measure length.
- Measure the length of objects in millimeters.
- Describe the pattern they observe when measuring the same object in millimeters and centimeters.

Lessons (9,10)

- Use a table to record data. Evaluate their personal progress using a checklist.
- Measure the length of objects.
- Explain how they will use their new learning in their daily lives.
- Determine whether to use millimeters, centimeters, or meters to measure length.
- Create a line plot using their collected data.

Chapter (1) Lesson (1)

Pattern^S

Patterns

A sequence of shapes, symbols or numbers according to a certain rule.

Visual patterns









Complete as the example:

O Rule			S
8 , 5 Rule	Inder increase	Fach n , 17	20
11 11	imber decreas		
RULE RULE RME	15	10	- 5
Sule D Rule	Pà	40	20
Rule	44	46	48
Pale A C	49	46	43
	26	28	30

Numbers Pattern stalamo

Ex: Complete the pattern according to the rule.

2,4,6,8,10,12

Rule

Each number increases by 2

+2

20 , 17 , 14 , 11 , 8 , 5

Rule

Each number decreases by 3



Complete the pattern according to the rule:

15 10

Rule

+5

20 40 60

Rule

+20

27

30

33

Rule

+3

48

46

44

Rule

-2

43

46

49

Rule

+3

30

28

26

Rule

-2



Find the rule, then complete the patterns:

4 , 6 , ,

Rule

50 , 45 , 40 , , ,



10 , 20 , 30 , , ,



42 , 35 , 28 , ____ , ___





21 , 18 , 15 , ,



16 , 14 , 12 , , ,



82 , 92 , 102 , , ,



54 , 62 , 70 , ____ , ___ ,



92 , 87 , 82 , ,



Lesson

Match each pattern to its rule:

4

6

8

10

3

9

12

15

60 55 50 45



16

13



100 110 120 0

24 44 64 84 0

32 24 16

80 70

60 0





3

6

10

Draw to complete the pattern, then write the numbers of items in each step:



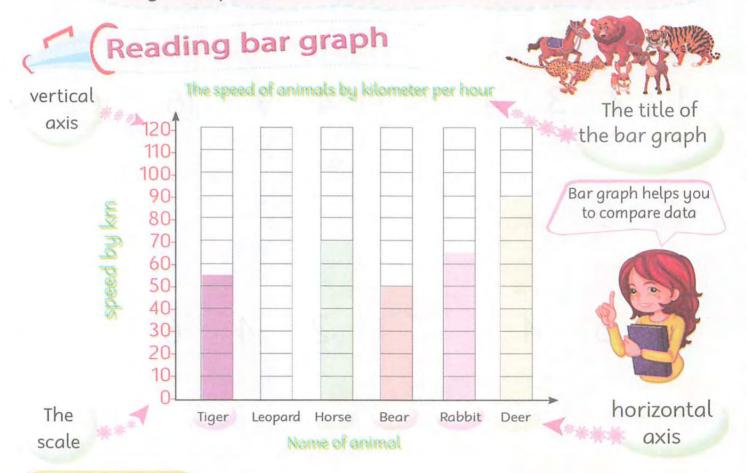
9

Chapter (1)
Lesson
(2)

Bar graPh.

Bar graph

A way to represent data on vertical or horizontal bars.

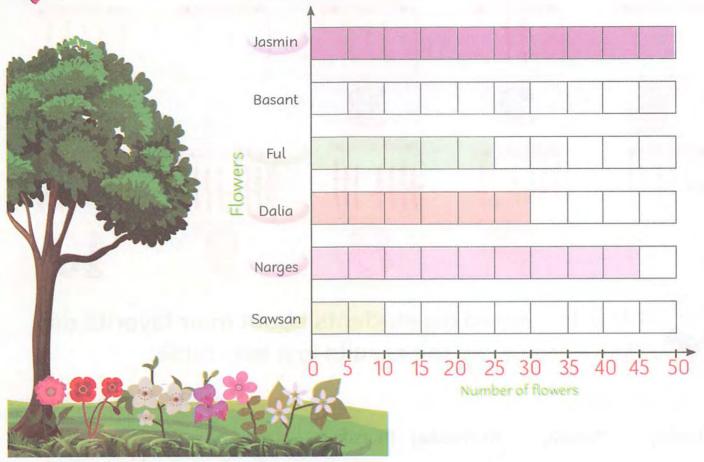


Complete

- 1 Which animal is the fastest?
- 2 Which animal is the slowest?
- 3 How fast is the tiger?...
- 4 Which animal has the least speed the bear or the rabbit?
- 5 Which animal has the most speed the leopard or the deer?
- 6 Arrange the animals ascendingly according to the speed.

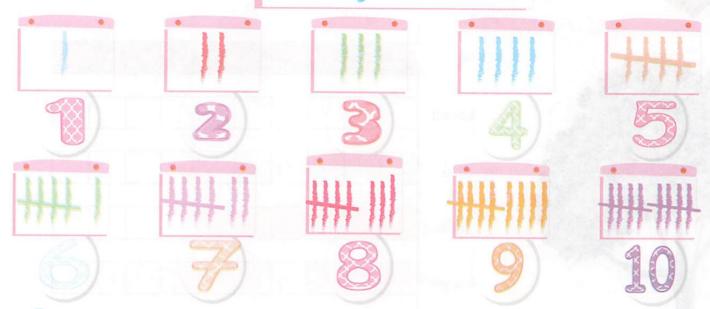


Use the bar graph to answer the questions:



- What does the bar graph represent?
- What scale did you use?
- 3 How many flowers are the ful?
- What is the least number of flowers?
- What is the greatest number of flowers?
- 6 How many more narges than sawsan?
- Which flower is more than 40 but less than 50?
- What is the total number of flowers?
- Arrange the flowers ascendingly according to their numbers.

Tally Marks





A teacher asked his students about their favorite day and he organized the results in a tally table:

Sunday	Monday	Wednesday	Thursday
Monday	Sunday	Thursday	Tuesday
Tuesday	Thursday	Thursday	Wednesday
Wednesday	Thursday	Wednesday	Monday
Thursday	Wednesday	Thursday	Wednesday

Favorite day	Tally	Number
Sunday		2
Monday		3
Tuesday		2
Wednesday	#1	6
Thursday	##1	7



Draw the tally marks that represent each number:

Number	3	5	8	11	16
Tallies					

2 The picture shows a set of farm animals. Record number of animals using tally marks:



Farm animals

Animal	Tally marks	Number
Horses		
Sheep		
Hens		
Geese		
Cows		

The total	numbers	of	animals:	

			300	
Jane - Color	The state of the s	+	+	 The second secon
******************	********************	*********		



Complete the table, then color the graph to show the data:

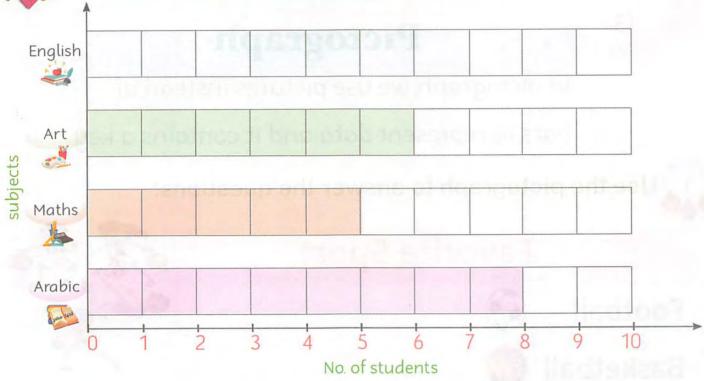
Day	Tally marks	No. of students
Sunday		
Monday		
Tuesday		
Wednesday	##1	
Thursday	##1111	



- The most favorite day for students is......
- The least favorite day for students is

4

Use the bar graph to complete the table:



Subject	Arabic	Maths	Art	English
Tallies				dande
No. of students				

- 1 The most favorite subject is _____
- 2 The least favorite subject is _____
- 3 No. of students who preferred maths is less than English by
- Arrange the favorite subjects descendingly according to the number of students.



Pictog(aPh

Pictograph

In pictograph, we use pictures instead of bars to represent data and it contains a key.

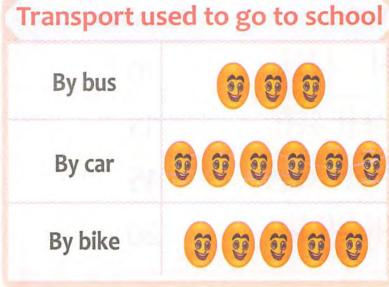


Use the pictograph to answer the questions:

Favorite Sport

Football Basketball Volleyball = 2 students Handball Complete? 1) The most favorite sport is ______ The least favorite sport is ______ How many more students who preferred football than basketball? How many less students who preferred basketball than handball? S Arrange sports ascendingly according to no. of students.

Use the pictograph to complete the table, then answer the questions:







Transport	Tallies	Number
By bus		
By car		
By bike		

Answer

- What is the transport used by most students to go to school?
- What is the transport used by least students to go to school?
- 3 How many students who go to school by car?
- 4 What is the total No. of students who use bus and car?
- 5 What is the difference between No. of students who use the car and those who use the bike?

Lesson 3



Use the table of tally marks that show favorite player to complete the pictograph:

Favorite player	Tallies	Number		
Tarek Hamid	## ##	10		
Shikabala	## ## ##	15		
El-Nenny	## ## ##	15		
Mohamed Salah	#######	20		

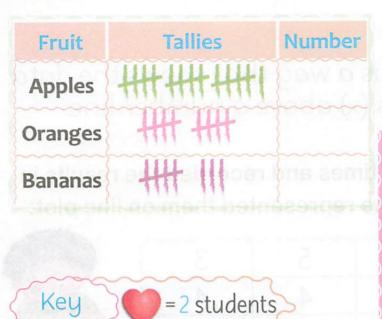
Favorite player			
Tarek Hamid			
Shikabala			
El-Nenny			
Mohamed Salah	I hazu in ng the figure en re usad la		



- 1 The most favorite player is _____
- The least favorite player is _______
- 3 What is the total number of students who prefer Mohamed Salah and Shikabala?_____
- 4 How many more students who prefer Mohamed Salah than Tarek Hamid?



Write the total of tally marks, then complete the pictograph:







Use the pictograph to complete the table of tally marks:





Parrot

Chapter (1) Lesson (4)

Lineplot

Line plot

It is a way that shows the data as (x) above a number line.



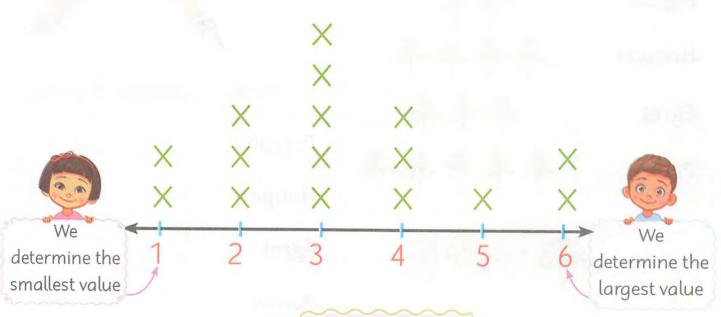
Samir tossed the dice 16 times and recorded the results in the following table, then he represented them on line plot:

	2	5	3
3	3	4	4
2	6	2	3
4	190	3	6





The Shown Numbers



Key X=1Time



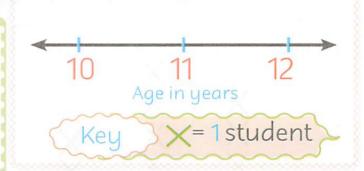


Students' age

Use the data in the table to draw a line plot:

Students' age in years

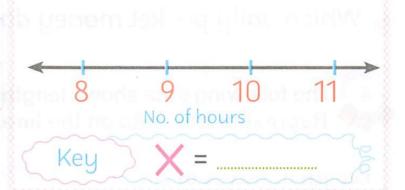
			-
12	10	11	11
11	12	11	10
10	11	12	10



Use the data in the table to draw a line plot:

Hours **Tallies** 8 9 10

Weekly hours for homework Weekly hours for homework





11

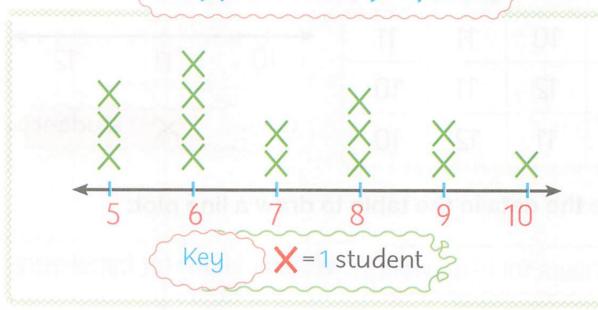
Answer these questions:

- 1 How many students who spend 10 hours doing homework?
- How many students who spend 11 hours doing homework?
- 3 What time has the least tallies?

Lesson 4

The line plot shows the daily pocket money for number of students:

Daily pocket money in pounds



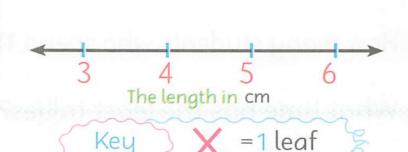
- Which daily pocket money do the most students have?
- Which daily pocket money do the least students have?
- The following data shows lengths of some leaves in centimeter.

 Represent this data on the line plot:

Length of leaves in cm

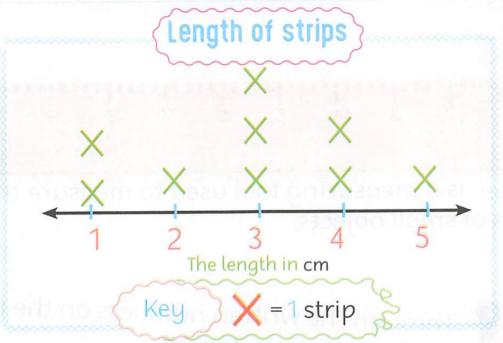
3	4	6
5	5	4
3	3	5
4	4	5
4	4	5

Length of leaves in cm



5

Dalia created a line plot for the length of strips she has:



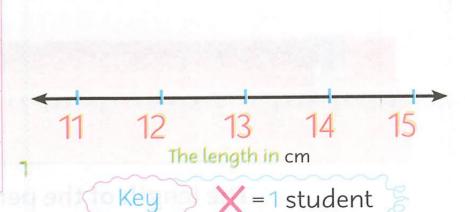
- Number of strips with length of 3 cm = ______
- Number of strips with length of 5 cm = _____
- 3 Dalia has 3 strips with length of _____cm.
- The total number of strips that Dalia has = ____ strips
- 6

A teacher measured the length of students feet, Represent it on the line plot:

Length of feet in cm

15	13	12	11	12
12	11	14	13	15
12	11	15	11	12
11	13	14	13	15

Length of students' feet





centimeter and meter





The ruler: is a measuring tool used to measure the lengths of small objects.



Through the written numbers on the ruler, we determine the length.

The width of the pinky equals about (1 cm)

Centimeter is the distance between two consecutive numbers



The ruler is divided into small units called centimeters



Line up the edge of the object with the zero mark on the ruler

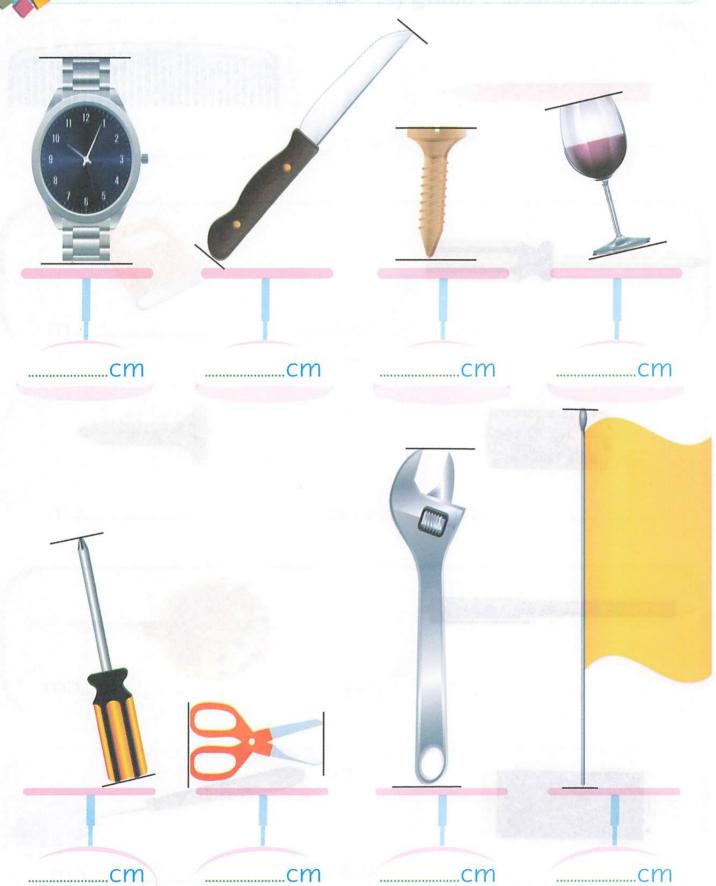




The length of the pencil = 9 cm



Use the ruler to measure the length of each item in cm:



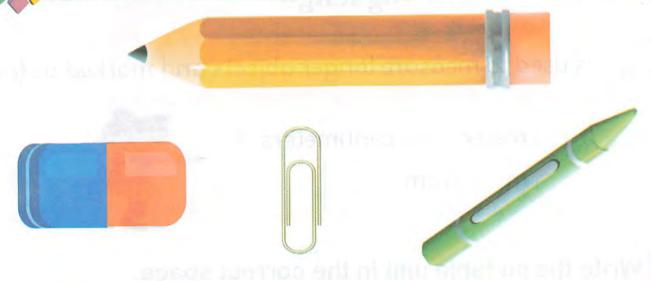


Use the ruler to measure the lengths in centimeters, then compare using (>, < or =):



3

Use the ruler to measure the lengths in cm, then complete:



A) Complete

- 1 The length of the pencil = _____
- 2 The length of the eraser = _____
- 3 The length of the crayon = _____
- 4 The length of the clip =
- 5 The longest item is _____
- 6 The shortest item is
- 7 The total length of the pencil and the eraser = cm
- 8 The difference between the length of the pencil and the crayon = ______
- B) Arrange these objects from the shortest to the longest.



Lessons

Measuring lengths in meter

is used to measure longer objects and marked as (m)

1 meter = 100 centimeters

1 m = 100 cm





Write the suitable unit in the correct space:

Meters

Centimeters

I'm the room. My length is 4



I'm the pencil. My length is 13

I'm the table. My length is 2



I'm the football pitch. My length is 50



I'm the nail. My length is 5



I'm the door. My length is 2





Circle the suitable unit for measuring the lengths of the following:





Estimate and write the suitable unit (cm - m):



about 3



















Rana measured the lengths of some strings in cm. She recorded the lengths in the following table to determine the most frequent length:

7	10	10	8	9	10	11	10	9
7	12	14	13	12	9	12	9	13
		12						
10	13	10	14	12	13	14	12	13

Represent the data on the line plot, then answer the following questions:

Title:



Key X =

- 1) What is the most frequent length? _____
- 2 What is the least frequent length? _____
- 3 Arrange the lengths from the most frequent to the least frequent.

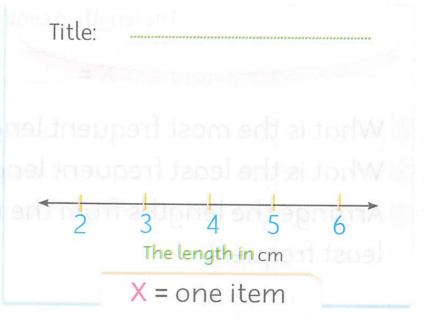




Measure the length of the items, complete the table, then create a line plot for these data:



Length	Tallies
2	
3	
4	
5	iost ireque
6	





Complete as the example:



Match the equal lengths as the example:

5 meters	3 meters
400 centimeters	600 centimeters 600 centimeters
8 meters	500 centimeters
6 meters 2 minutes 8	800 centimeters
300 centimeters	4 meters

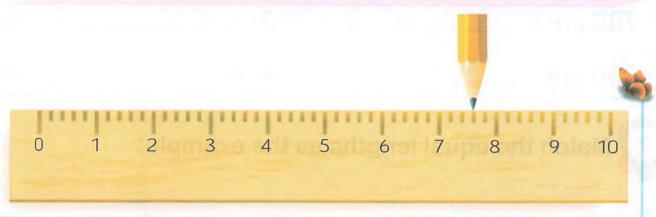
Chapter (1) Lesson (8)

Measuring lengths in millimeter



It is a length measuring unit used to measure very small objects.

It's a very small part of the centimeter. It's about the width of the point of the end of your pencil.



1 centimeter = 10 millimeters 1 cm = 10 mm





Complete as the example:

1 centimeter = 10 millimeters

2 centimeters = ____ millimeters

3 centimeters = ____ millimeters

4 centimeters = ____ millimeters

5 centimeters = ____ millimeters

6 centimeters = millimeters

7 centimeters = ____ millimeters

8 centimeters = ____ millimeters

9 centimeters = ____ millimeters

10 centimeters = millimeters



Chapter

= ww 01L = mm 08 = ww 09 = ww 06 = ww 00L = ww 02 CLU

Write the length of the f.: slqmsxs and as staldmod

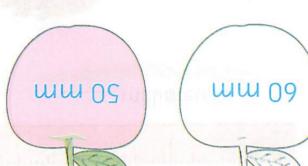
S Color each two equal lengths in the same color as the example:

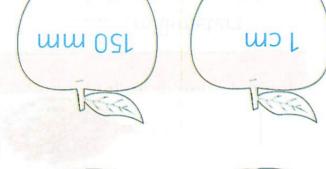
3 cm

= ww 05L

шш 06

шш 09

















J2 cm

mm of

WD 6

30 mm

ws 5

= ww 0L









Lesson 8



Write the length of the following objects:



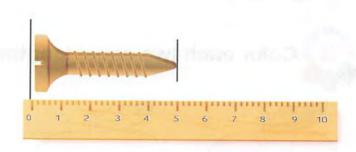
...... millimeters



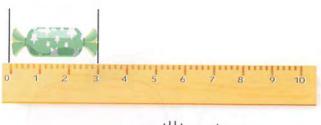
..... millimeters



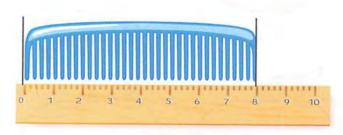
......millimeters



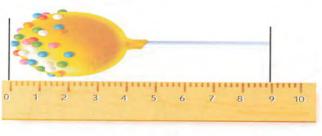
..... millimeters ...



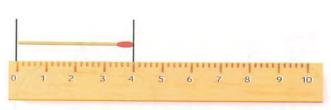
..... millimeters



..... millimeters



..... millimeters



..... millimeters



Use the ruler to measure the lengths in millimeter:









Circle the suitable measuring unit for each item:

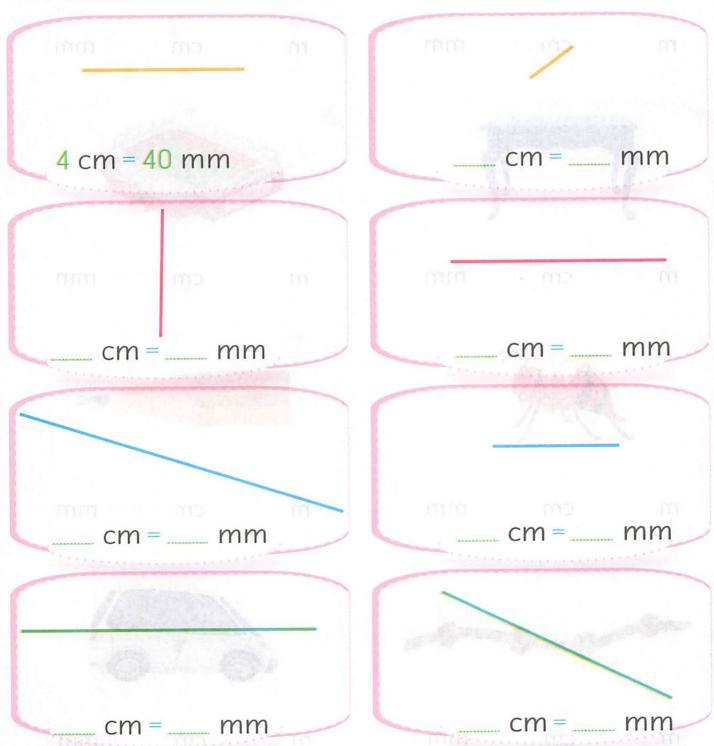


Measuring lengths

Chapter (1) Lessons (9,10)



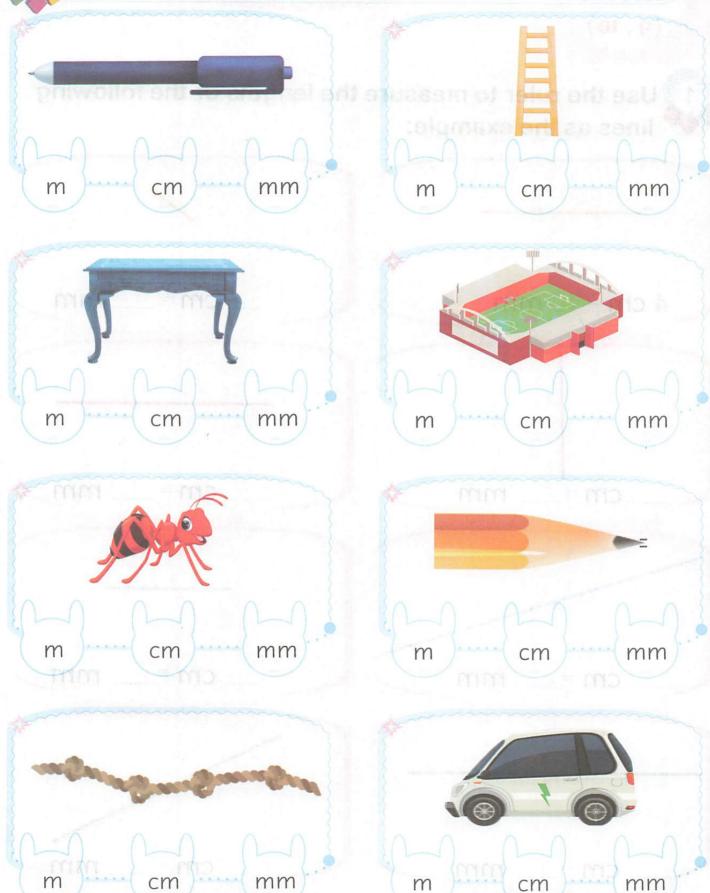
Use the ruler to measure the lengths of the following lines as the example:





Lessons 9,10

Shade the suitable measuring unit for each object:





1	Flag pole k	neight	(mm	3911	cm -	m
	I lag pole i	reigite	(initial)		CITI	, , ,

< = | student



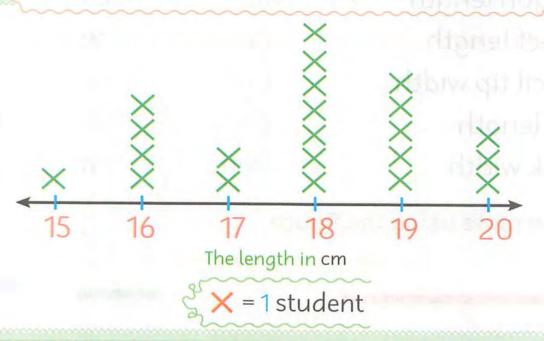
Complete using the figure:

- 1 The length of the blue line = ____ cm
- 2 The length of the red line =cm
- 3 The length of the yellow line =cm
- 4 The length of the green line = ____cm
- The total length of the blue and yellow lines
- We need and blue lines to be equal to the ly yellow line.

Lessons 9,10

Use the line plot that shows the lengths of primary three students' feet in cm. Complete the table, then answer the questions:

The length of feet of primary three students



Length in centimeters 15 16 17 18 19 20

No. of students

- 1 How long are the feet of most students?_____
- 2 How long are the feet of the least students?_____
- 3 How many students that have feet length of 16 cm?_____
- What are the two lengths that have the total number of 12 students?
- 5 What's the difference between students with the greatest and the least length of feet?

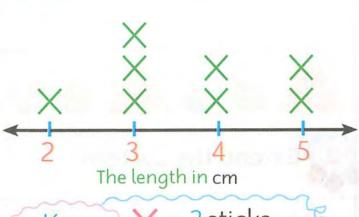


Notice the line plot, then answer:



- How many sticks that have a length of 4 cm? No. of sticks =
- No. of sticks with the greatest length =
- No of sticks with the least length =

The length of sticks



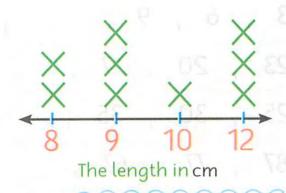


Use the line plot to answer the questions:



- How many wings that have a length of 12 cm?
 - No. of wings = wings
- No. of wings with the
- greatest length =
- No. of wings with the least length =

The length of wings

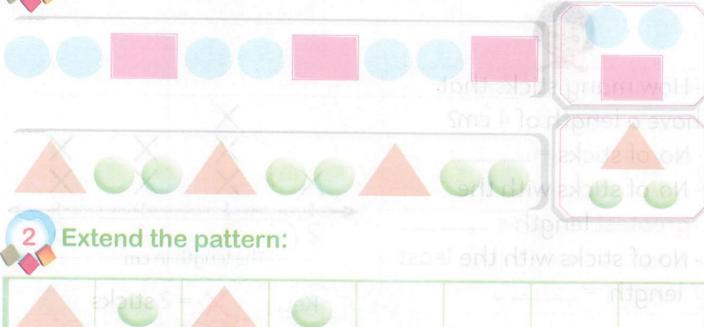


Key X = 3 wings

Review on Chapteniant solion



Circle the figure that comes next:







3	,	6 ,	9	,		······)	,	 911	I.W	,		,	V
23	X,	20	1	17	,	Š	,	 ,	the	,	M sel	,	v to er
25	,	30	,	35	,	- minn	,	 ,		1	(Viiiii)	,	w.la.nol/
													ength
37	Sol	47	1	57	,	LKeu	,	 ,	munn *	,		,	
10	,		,	20									

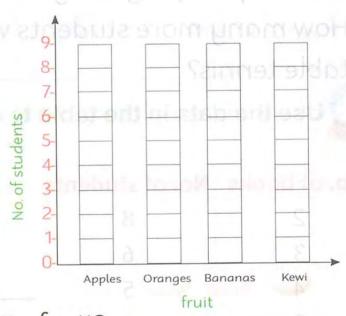
54



This is a survey about favorite fruit. Make a tally table, then use it to color the bar graph:

apple	banana	apple
orange	listis apple	kewi
apple	Marapple	orange
banana	sinned banana	apple
banana	apples	orange
orange	orange	kewi

Fruits	Tallies	Number
Apples		
Oranges	TOTA ST	es district in
Bananas		
Kewi		

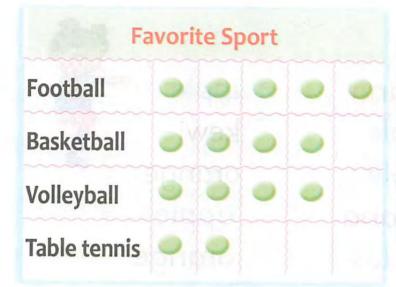


- 1) What is the most favorite fruit?
- 2 What is the least favorite fruit?
- 3 Arrange the fruit according to the number of students ascendingly.

Review



Use the pictograph to complete the table of tally marks, then answer:



Tallies	Number
Sprion	
Julyah	
прыпру	
	Tallies

Key Each = 2

- 1 How many students who play football?
- Which sport played by 4 students?
- 3 How many more students who prefer football than table tennis?

6

Use the data in the table to create a line plot:

No. of books	No. of students	Books read that day
2	8	
3	6	
4	5	←
5	4 Viius	siporal comedicted 1
6	1 9107	Key Each X=1 student
		maranana

- 1 No. of students who read 3 books =
- 2 The total number of students who read 4 and 5



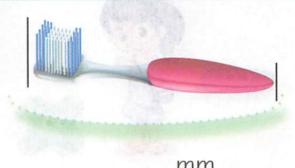
Circle the suitable unit for measuring lengths of the following:



Use the ruler to measure the lengths of the following objects:









1 metercentimetersmillimeters 30 centimeters 100 millimeterscentimeters 400 centimeters = meter

400 millimeters centimeters = <u>agging and millimeters</u> 12 centimeters 5 meters to unage a sylfotymum centimeters millimeters 80 centimeters

Chapter Two



Lessons (12,13)
Ten thousands

Lesson (14) Hundred thousands

Lessons (15,16) Arrays

Lessons (17,18) Multiplication

Lessons (19,20) Commutative property of multiplication

Chapter Two Outcomes

Lesson (11)

- Explain how value of a digit can change based on its place value.
- Apply strategic thinking to construct a four-digit number with a high value.

Lessons (12,13)

- Read and write numbers up to Thousands place in a standard form. Compare numbers using symbols
- Read and write numbers up to the Thousands place in expanded form.
- Read and write numbers up to the Hundred Thousands place.
- Create visual models of numerical value.
- Compare and order numbers up to the Hundred Thousands place.

Lesson (14)

- Skip count by 2s, 5s or 10s. Read and write numbers up to the Hundred Thousands in standard form.
- Read and write numbers up to the Hundred Thousands in standard and expanded forms.
- Order a set of numbers up to the Hundred Thousands place.

Lessons (15,16)

- Identify and practise strategies for counting sets of objects.
- Explain the strategies they used to calculate the total number of items in an array.
- Use a variety of strategies to calculate the total number of items in an array.

Lessons (17,18)

- Skip count by (3s). Compare arrays to equal groups.
- Use drawing, arrays, equations and physical models to solve repeated addition and multiplication problems.
- Express repeated addition problems as multiplication problems.
- Explain how repeated addition and multiplication equations are related.
- Compare numbers using symbols. Explain products of whole numbers.
- Compare two products using greater than, less than, and equal to symbols.

Lessons (19,20)

- -Solve multiplication problems using arrays.
- Create arrays to model the commutative property of multiplication.
- Investigate commutative property of multiplication using arrays.
- Explain multiplication and the commutative property of multiplication.
- Think strategically to solve a mathematical problem. Use arrays to solve a real-world problem.

Chapter (2) Lesson

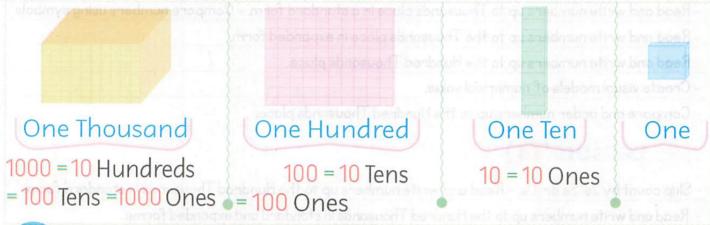
Thousands

(11)

The smallest 4-digit number is (1000)

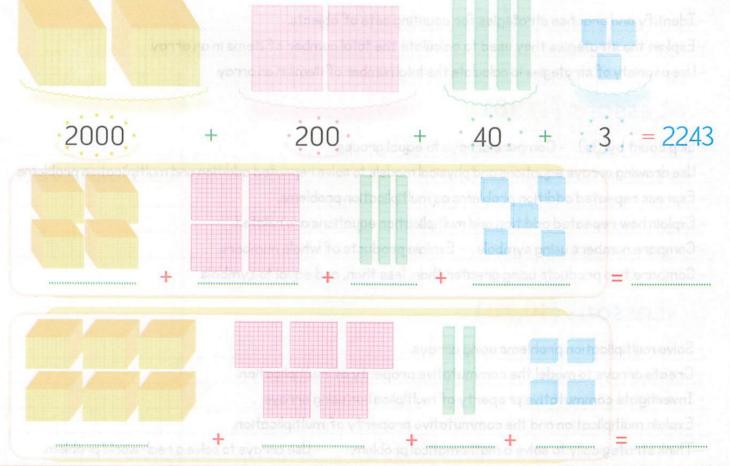


doid a dt 999 + 1 = 1000 as at galdaidt alga tuat a viga





Write the number as the example:



Notice and learn

Number = 7435

Thousands	Hundreds	Tens	Ones
7	4	3	5297

7 Thousands, 4 Hundreds, 3 Tens, 5 Ones

7000 + 400 + 30 + 5

7435

It's read seven thousand, four hundred, thirty-five

Write the place value for the digit in red.

Number	Place value
3694	4 (D) ((L) 4
72 <mark>4</mark> 2	
3753	

Number	Place value
7945	4562 = 11
2321	9412
1972	and the second second



Write the value for the digit in red.

Number	Value
26 <mark>1</mark> 5	
6 7 35	+
9 127	
2137	

Number	Value
1921	= 6240
3645	
2132	
9142	1025

Lesson 11



Complete the table:

Number	Thousands	Hundreds	Tens	Ones
3765	Ę.	A.	Z	
6517				
9475				
3047	2	5	4	6
ctu-five_	undred thi	and Sur h	even Onove	3
	8	6	7	2



Write in expanded form as the example:



Write in standard form as the example:

$$2000+300+40+6 = 2346$$

$$6000+800+70+2 = 8000+50+4 = 8000+400+10+9 = 3000+60 = 3000+700+5 = 3000+800+90+9 = 8000+800+90+9$$



Complete as the example:

3475 = 3 Thousands, 4 Hundreds, 7 Tens, 5 Ones.

9632 =Thousands, Hundreds,Tens, Ones.

_____7 Thousands, 5 Hundreds, 4 Tens, 6 Ones.

.....= 9 Thousands, 6Tens, 8 Ones.

= 8 Thousands , 6 Ones.

9 Thousands, 8 Tens.







Compare using (> , < or =):

999

1111

3907

6 Thousands

7907

607

9 + 4 + 2 + 1

9421

8000+900+80+6

8986

3 Thousands, 9 Hundreds

3009

725 + 6000

6275

10 Hundreds

1+999



Create the greatest and smallest number as the example:

Digits	The greatest number	The smallest number
9,0,1,2	9210 Muh 1	3475 9201 usands.
4 ,9 ,7,8		
6 ,1 ,8 ,7	HUMUTEUSIEID	9632 = Thousands
4 ,7 ,9 ,5	Hundreds (Tens. 6.0	
6 ,8 ,7 ,4	Tone S Ones	Thousands
1,3,2,5		
4,0,2,3	Ones	Line & Thousands
8,0,2,6		



Arrange the following numbers ascendingly:

	6589 ,	6889 ,	6599 ,	6879
The order is	·, ,		, ,	2 6932
	1111 ,	1011 ,	1001 ,	4167
The order is:	, ,	,	,	9148
	6589 ,	2819 ,	2612 ,	345
The order is:	,	······································	, ,	
	7512 ,	5721 ,	7002 ,	2007
The order is:	i i i i i i i i i i i i i i i i i i i	int hundred	nousand eic	HOUR L
10 Arrang	ge the follo	wing numb	ers descend	ingly:
	9865 ,	9868 ,	9965 , 9	786
The order is	: aaadij xi	<u> hundred s</u>	<u>xia bonau</u> gd	Minet
	3601 ,	3061 ,	3160 ,	3116
The order is	,	:slqmax	s sili es eleic	modile
A)ndreds	1429 , 00	5136 ,	3244uo, Ta	4168) 3
The order is	·, 0	,		
				5125
The order is			KPIPKPI	mestalistical P

Lesson 11



Write the number in word form as the example:

- 1 8615 Eight thousand, six hundred fifteen.
- 2 6932
- 3 4667
- 4 8916
- 5 2315
- 6 3212

12

Write the number in standard form as the example:

- 1 Four thousand, eight hundred fifteen = 4815
- 2 Six thousand, four hundred twenty =
- 3 Eight thousand, nine hundred fifty-four =_____
- 4 Six thousand, five hundred twenty-nine =_____
- 5 Nine thousand, six hundred sixty-three =_____
- 6 Five thousand, four hundred =_____

13

Complete as the example:

5000 = 5 Thousands

5000 = Hundreds

5000 = ____Tens

3000 = Thousands

90 Tens = Hundreds

70 Hundreds = Tens

Chapter (2) Lessons

Ten thousands

(12,13) (10000) is the smallest 5-digit number

Number = 89456

Ten thousands				
8	9	4	5	3683

8 Ten thousands, 9 Thousands, 4 Hundreds, 5 Tens, 6 Ones

80000 + 9000 + 400 + 50 + 6

It is read eighty nine thousand, four hundred fifty-six



Write the place value for the digit in red:

Number	Place value
2 3532	
7 <mark>6</mark> 287	
45632	

Number	Place value
1845 <mark>2</mark>	
3 6715	
98526	



Write the value for the digit in red:

Number	Value	Number	Value
53217		32708	
87975		7 <mark>5</mark> 432	
65432		67315	
89652		81542	CISUI

Lessons 12,13



Complete the table:

Number	Ten thousands	Thousands		Tens	Ones
45652	17-31	-xe-150m	JVI		
38217					
56825	4 5	6	-8		
	7	8	2	0	4
	2	9	5	0	4 8
9	023	04 7 0	0002	5	0038



Write in expanded form for the following numbers as the example:



Write the number in standard form as the example:

$$80000 + 6000 + 50 + 2$$

$$70000 + 40 + 7$$

$$60000 + 4000 + 700 + 5$$

Complete as the example:

65431 = 6 Ten thousands, 5 Thousands, 4 Hundreds, 3 Tens, 1 Ones

48652 = __Ten thousands, __Thousands, __Hundreds, __Tens, __Ones

59387 = ___Ten thousands, __Thousands, __Hundreds, __Tens, __Ones

= 7 Ten thousands, 5 Thousands, 6 Tens, 8 Ones

= 4 Ten thousands, 7 Thousands, 8Tens

= 7 Ten thous 6 Tens, 2 Ones

= 7 Ten thousanas, 9 Hundreds

= 9 Thousands, 9 Ones



Lessons 12,13



Compare using (> , < or =):

9002-9

anna

(agg)

34000+600+80+7



Create the greatest and the smallest number as the example:

Digits	The greatest number	The smallest number
9,5,4,6,3	96543	34569
7,1,6,3,8		
8,4,6,5,2	Thousands_Hundred	2387 — Territhpusonds,
5,4,2,7,3	O.B., energe shripeural)	
2,6,4,2,5	and the particular in	
2,3,1,4,6		
3,4,7,9,0		
4,6,1,2,8		
9,8,7,5,6		

Arrange the following numbers ascendingly:

24652 , 38602 , 52565 , 47625 The order is: 13725 , 11025 , 1005 , 13275 The order is: 34852 , 43258 , 85342 , 58432 The order is: 34852 , 62825 , 82562 , 62715 The order is: ______, ______, Arrange the following numbers descendingly: 25137 , 25011 , 50012 , 32178 The order is:, 25682 , 28256 , 25862 , 28625 The order is:, , 15276 , 35227 53227 The order is: 53297 , 2462 , 24625 79415

Le	ssons1	2,13	
11	Write th	e numbers in word form as the exar	nple:
1	28415	Twenty eight thousand, four hundre	d fifteen
2	96824		
3	58479		
4	36253		
5	79468		
6	14695		
7	12005		
12	Write th	e number in standard form as the	example:
1 7	wenty-sev	en thousand, five hundred twenty-fou	ur =27524
2 F	ifty-eight	thousand, four hundred fifty-three	=
3 5	ixty-five t	housand, nine hundred sixty-four	=
4 5	ixty-sever	n thousand, nine hundred sixty-four	=
5 N	linety tho	usand, six hundred fourteen	=

8 Forty-eight thousand, eighty

6 Forty-five thousand, nine hundred five

7 Thirty-four thousand, two hundred forty-nine

Chapter (2) Lesson

Hundred thousands

(14)

Notice and learn 99999 + 1 = 100000

(100000) is the smallest 6-digit number

453276

-	Hundred Thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
-	4	5	3	2	7	6

4 Hundred thousands, 5 Ten thousands, 3 Thousands,

400000 + 50000 + 3000 + 200 + 70 + 6

It is read Four hundred fifty-three thousand, two hundred seventy-six.

1 Write the place value for the digit 5 in each number:

Number	Place value
352673	4000
613546	
149635	

Number	Place value
0016735200	
523463	
765984	

Write the value for the digit 7 in each number:

Number	Value
7 52693	
327142	
135273	

Number	Value
271549	A79051
562714	4/8/D)
256417	

Lesson 14



Complete the table as the example:

Number	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
645327	6	4	5	3	2	7
68328						
324217						
778359						
40053						
3524						
600006						



Complete the table as the example:

Number	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
264531	0.02	6	4	5	3	1
	200000 +	60000	+ 4000	+ 500 +	30	+ 1
570432	63	234				
	A.P.	6.91	+	+ 78961		+
689543			907 707 80			
	W. 194	inglid	+ BRIEV	+ 1986114	14	+
478051	61	S1.17		52693		
	+	2564	+	+ 541 +		+

Chapter 2



Write the number in standard form as the example:



Write the following number in expanded form as the example:

Lesson 14



Compare using (> , < or =):

376257

385672
/

625916

679872

452138

287328

7000 + 500 + 30 + 2



Fifty-four thousand, Three hundred nine



Twenty-four thousand, five hundred eight





Create the greatest and the smallest digit number:

Digits	The greatest number	The smallest number
9,5,3,7,2,6		
8,9,0,3,0,1		
7,9,0,3,5,2		
5,9,2,3,7,4		
2,3,1,7,8,5		
1,4,5,3,7,2		
9,5,6,3,0,1		T - Intitals



Arrange the following numbers ascendingly:

26875 , 268752 , 267852 , 265872 The order is: ______, 625816 , 625186 , 625168 , 625618 The order is: 472815 , 742835 , 472185 , 742581 The order is: ______, _____, 984716 , 984176 , 897416 , 987416 The order is:, Arrange the following numbers descendingly: 285619 , 285916 , 825691 , 825961 The order is: ______, _____, 567413 , 567143 , 486243 , 684243 The order is: ______, ______, 162786 , 162687 , 687261 , 687621 The order is: _____, ____, Write in word form: 672563 2 847275

3 728023

Lesson 14

12 Write in standard form:
1 Seven hundred ninety-five thousand, four hundred ninety-five =
2 Nine hundred thirty-six thousand, six hundred thirty-four =
3 Five hundred forty thousand =
4 Nine hundred eighty thousand, five =
13 Skip count by (2s):
1 2, 4, 6, 1789
2 6, 8, 10,, ,, ,, ,
3 10, 12, 14 ,
14 Skip count by (5s):
1 5, 10, 15 ,, ,, ,
2 15, 20, 25 ,, ,, ,, ,,
3 20, 25, 30 ,
15 Skip count by (10s):

1	10, 20, 30	,, ,	
2	30, 40, 50	,, ,, ,, ,, ,,	
3	20, 30, 40	,, ,, ,,	
4	50, 60, 70	,,	,

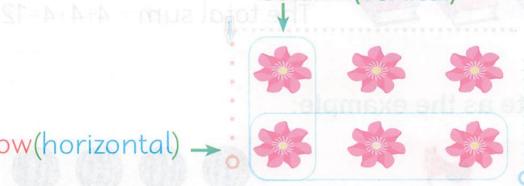
Chapter (2) Lessons (15,16)

Array

The array: is ordered objects in rows and columns. Column(vertical)

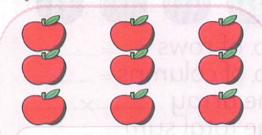








Complete as the example:



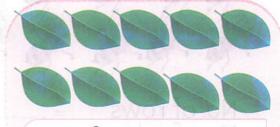
No. of rows = 3No. of columns = 3 Th array: 3×3



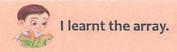
No. of rows = No. of columns =____ Th array:x



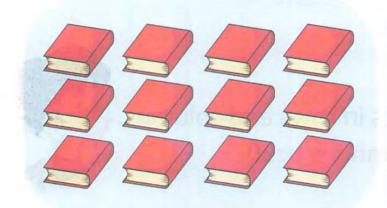
No. of rows = No. of columns =..... Th array: ____x



No. of rows = No. of columns =..... Th array:x



Finding the total sum of the array using rows



No. of rows = 3

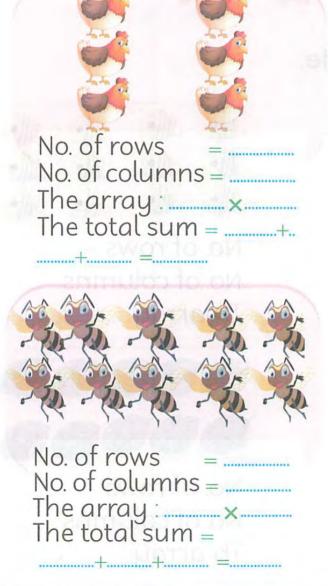
No. of columns =4

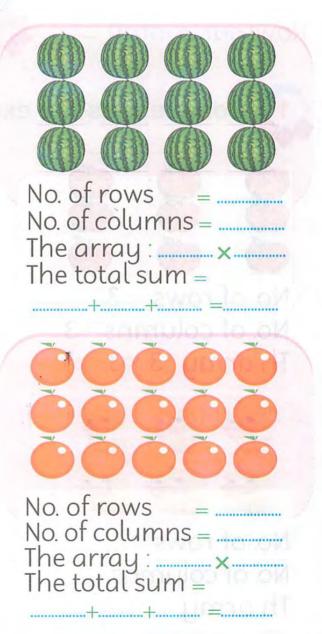
The array: 3×4

The total sum = 4+4+4=12



Complete as the example:





Finding the total sum of the array using columns



Complete as the example:



The total sum =

$$3 \times 3 = 9$$





The total sum =

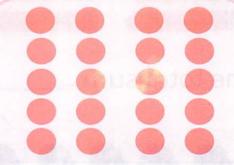


The total sum =



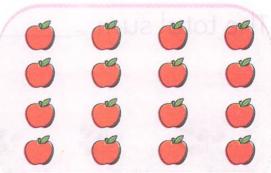
The total sum =

+	 	
×		



The total sum =

 ×	=



The total sum =

 +	+	+	
 X.		=	

Lessons 15,16





The total sum =



The total sum =



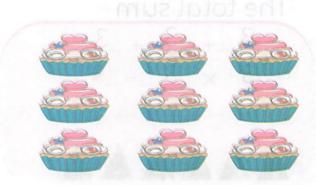
The total sum =



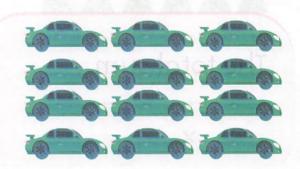
The total sum =



The total sum =



The total sum =



The total sum =



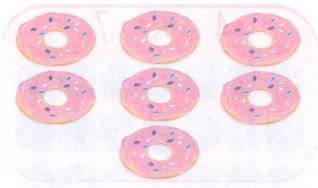
The total sum =



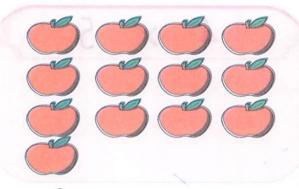
Complete the non-array to get an array as the example:

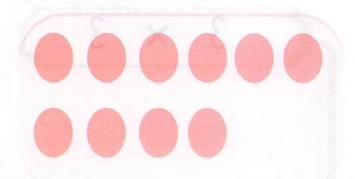


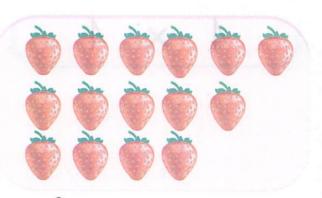
No. of rows = 3 rowsNo. of columns = 4 columnsThe total = $3 \times 4 = 12$







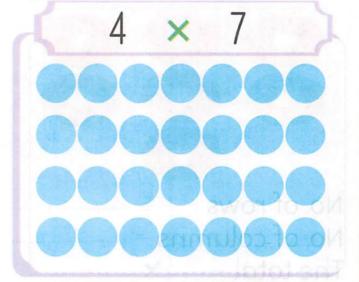




Lessons 15,16



Draw arrays as required as the example:







No. of columns

The Total

Chapter (2) Lessons (17,18)

Multiplication

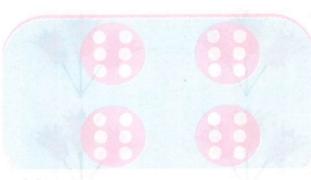
Addition sentence
$$3 + 3 + 3 + 3 = 12$$

Multiplication sentence $4 \times 3 = 12$

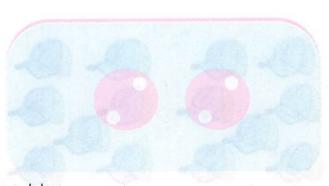


Complete as the example:







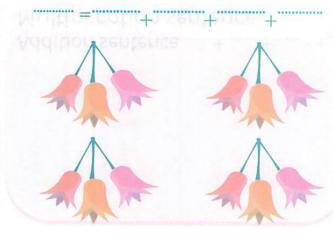


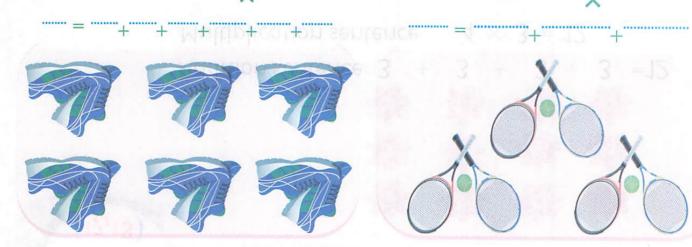
Addition sentence + Multiplication sentence × =

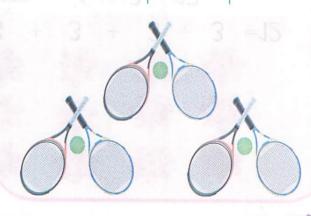








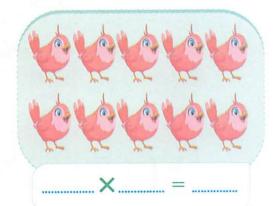


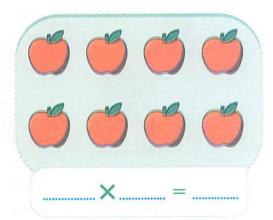


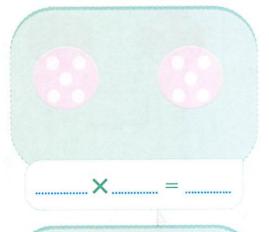
____X

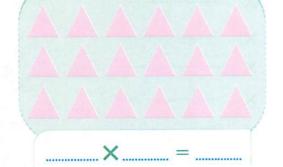


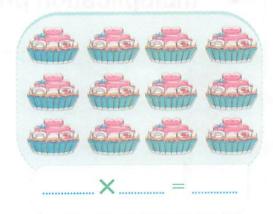
Write the multiplication sentence for the following:

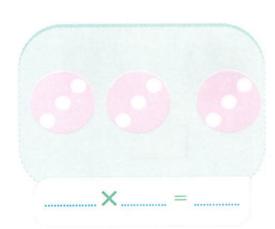


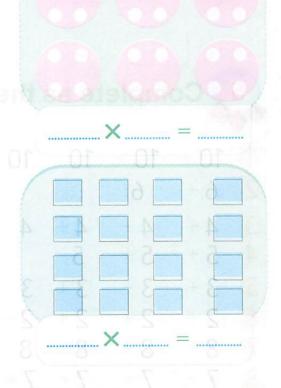








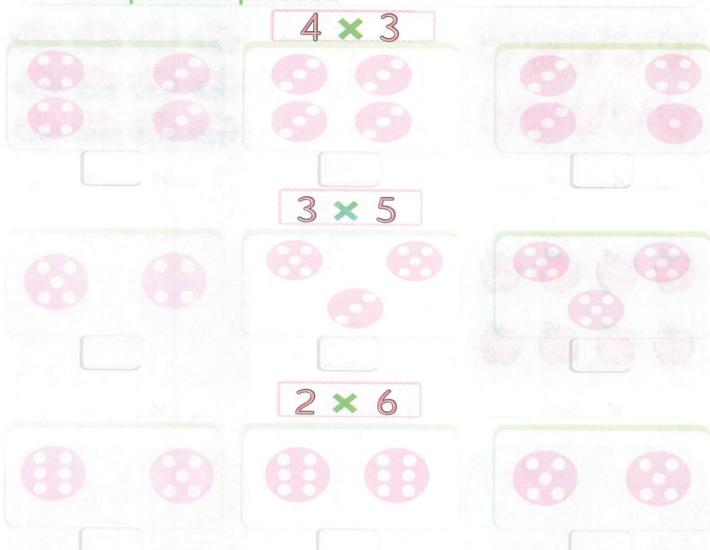




Lessons 17,18



Tick (✓) below the picture that represents the right multiplication product:





Complete as the example:

Match each set to the suitable array:



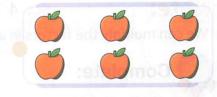








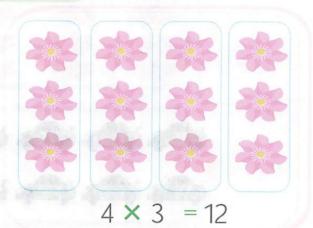






7 Complete as the example:

Chapter (2) Lessons (19,20)



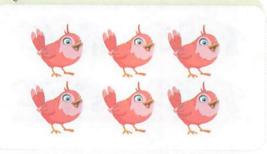
Note:

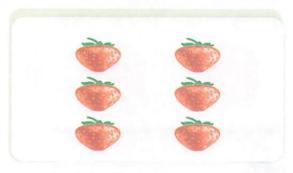
so,
$$4 \times 3 = 3 \times 4 = 12$$

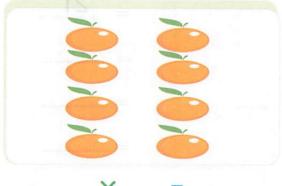
We can multiply the factors in any order and we get the same product.



Complete:



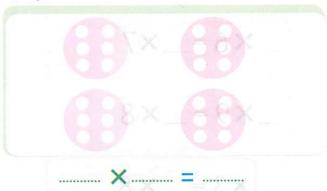


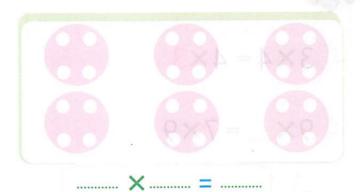




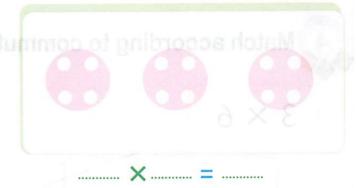


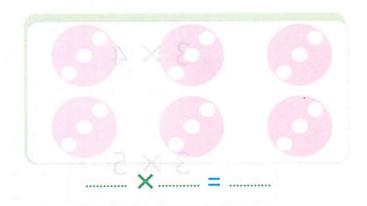
Complete using commutative property:

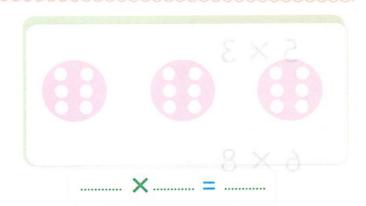












Lessons 19,20



Complete as the example:

$$3\times4=4\times3$$

$$9 \times = 7 \times 9$$

$$8 \times _{--} = 7 \times 8$$

$$4 \times 2 = \times 4$$

$$\times 7 = 7 \times 5$$

4

Match according to commutative property as the example:

$$3 \times 6$$

$$8 \times 6$$

$$7 \times 4$$

$$6 \times 3$$

$$5 \times 3$$

$$3 \times 4$$

$$6 \times 8$$

$$3 \times 5$$

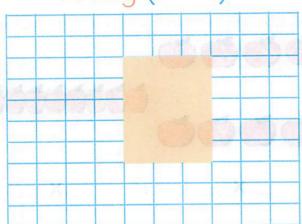
$$4 \times 3$$

$$4 \times 7$$

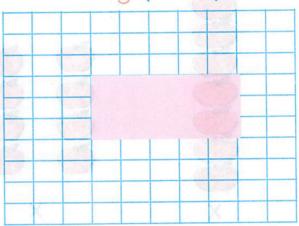


Create arrays representing commutative property, then color as the example:

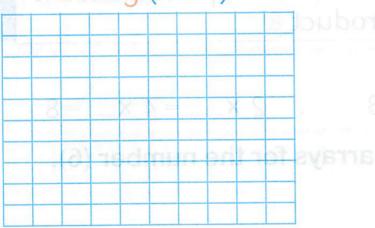
Array
$$(5 \times 3)$$



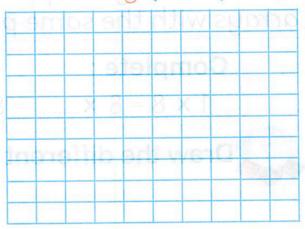
Array
$$(3 \times 5)$$



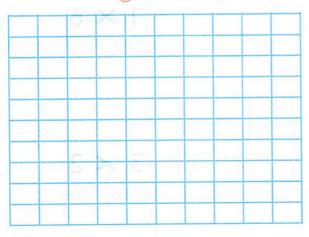
$$\frac{1}{4}$$
 Array $\frac{4 \times 7}{4}$ and no select Array $\frac{7 \times 4}{4}$



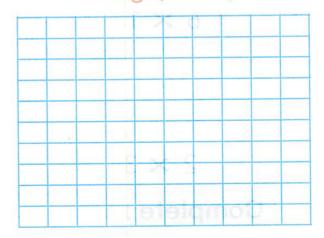
Array
$$(7 \times 4)$$



Array (5×6)



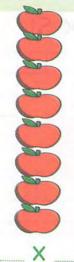
Array (6×5)

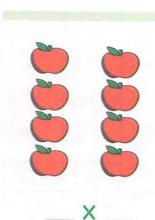


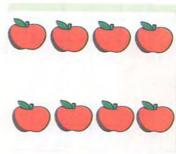
Lessons19,20



Write the name of each array:









Note:

We can arrange 8 apples on the shape of different arrays with the same product 8.

Complete:

$$1 \times 8 = 8 \times \dots = 8$$

$$1 \times 8 = 8 \times 2 \times 2 \times 2 \times 8 = 8$$



Draw the different arrays for the number (6).

6 × 1

1 × 6

 2×3

 3×2

Complete:



Draw the array on the grid using the two cards:

To the bigit in 12ds	e value	bal			eji	W		
							1978	7 77
rows columns			215	H			Tel 3	
						99		
Multiplication equation =						2	TAS	
× =						700	N C	
e digit in red:	elt ant c	l II c			edi	-MA		
and the same of th	113 8501 6							
rows columns			1,835	, 1				
Multiplication equation =								
A (22)1						5	591	
X = 2001						CA		
								~~~
325326 0						552		
	10 Loc 10							
	to mi mov	100	un	on	93	TVA		
rows columns	20 111 101							60
							4.,	
Multiplication equation =	idreds,	1111	7.1	G/S	110	WO	ΠĴ	0.1
2909.8,209.6		424	Rag	200			300	***
s lool lool s		A S	12	ME	US.	on:	-21	
165 Secondos		) t	5,	hd	JSC	on	6 t	5.0
rows columns								
Multiplication equation =		un	5, 7	no	osi	00	3 t	
=								

# Review on chapter two



#### Write the place value for the digit in red:

Number	Place value	Number	Place value
3456		456325	OL THE WOL
36784		21321	THE STREET
934215		34532	



#### Write the value for the digit in red:

Number	Value	Number	Value
46353		45321	X
32563		16507	
605632		325321	



#### Write the number in standard form:

- 1 3 thousands, 7 hundreds, 4 tens, 5 ones
- 2 75 thousands, 9 hundreds, 1 tens, 8 ones
- 3 175 thousands, 3 hundreds
- 4 26 thousands, 8 tens, 7 ones
- 5 23 thousands, 7 hundreds



## 5 Write in standard form:

### Compare using ( > , < or = ):

5613 5715	75 750 thousands hundreds
54462 111111	13400 13 thousands and 4
534297 534268	26573 26579
808080 080808	78315 78315
23 thousands 23001	99999+ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#### Review



#### Arrange the following numbers ascendingly:

3452, 43123, 83517, 13512

The order is: ....., ...., , ...., , ....,

425632, 99475, 9999, 28235

345231, 344131, 88888, 342231

The order is: _____, ____, ____,



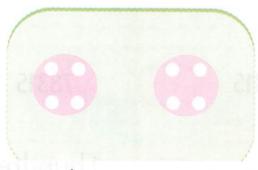
#### Complete:



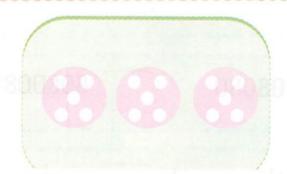
The total sum = .....+



The total sum = ..... + ..... + .....



The total sum = ..... + .....



The total sum = ..... + ..... + .....

# Chapter Three



Lessons (21, 22) Mu

Multiplication story problems

Lessons (23,24)

Multiples

Lesson (25)

**Factor pairs** 

Lessons (26, 27)

Telling time

Lessons (28, 29)

Division

Lesson (30)

The relation between multiplication

and division

## Chapter Three Outcomes

#### Lessons (21, 22)

- -Use a variety of strategies to solve multiplication story problems.
- Explain elements of multiplication story problems.
- Write a multiplication story problem that matches a given equation.
- -Skip count by 4s.

- Match multiplication equation to story problems.

#### Lessons (23, 24)

- -Explain the rules of multiplying by 0 and 1. Identify common multiples of numbers 2 and 3.
- -Predict common multiples of 2 and 3 greater than 120.
- -Use evidence to justify and explain mathematical thinking.
- -Identify numerical patterns when multiplying by 5 and 10.
- -Identify the multiples of 5 and 10. Explain the relation between skip counting and multiplication facts.

#### Lesson (25)

- -Explore the relationship between multiples of 2, 3, and 6.
- -Model the commutative property of multiplication using arrays.

#### Lessons (26, 27)

- -Skip count by 5s.
- Explain the relationship between skip counting by 5s and telling time to 5-minute increments.
- -Read and write time in 5-minute increments on an analog clock.
- -Use a variety of strategies to tell time to 5-minute increments. Analyze and correct incorrect time.

#### Lessons (28, 29)

- -Use manipulatives to model division. Explain the relationship between sharing equally and dividing.
- -Use a variety of strategies to solve division problems.
- Explain their thinking when solving division problems. Discuss the importance of perseverance.

#### Lesson (30)

- Describe the relationship between factors and their product.
- -Use the division symbol.
- Apply the relationship between multiplication and division to identify fact families.
- -Solve division problems with one unknown value.

# Multiplication story problems

Chapter (3) Lessons (21, 22)

Farah bought 4 bags of sweets. Each bag contains 5 pieces of sweets.

How many pieces of sweets did Farah buy?

1st strategy

#### The repeated addition



No . of sweet pieces =  $4 \times 5 = 20$  pieces

2nd strategy

Arrays

5



No .of sweet pieces =  $4 \times 5 = 20$  pieces

3rd strategy

Skip counting

No .of sweet pieces = 20 pieces

#### Lessons 21, 22



#### Find the result using one of the previous strategies:

There are 8 bags of oranges. Each bag has 4 oranges. What is the total number of oranges?



There are 4 bags of balloons. Each bag has 3 balloons. What is the total number of balloons?



There are 3 crayon boxes. Each box has 8 crayons. What is the total number of crayons?



There are 3 bunches of flowers. Each bunch has 6 flowers. What is the total number of flowers?



Hasan runs 4 kilometers every day.

How many kilometers does Hasan run in
5 days?



There are 3 boxes of juice. Each box has 9 cartons. What is the total number of juice cartons?



There are 4 wheels in each car. How many wheels are there in 8 cars?



We have 8 cars. Each car has 5 seats. How many seats are there in all?



There are 6 bags of cookies. Each bag has 3 pieces. How many pieces of cookies are there in all?



Ahmed bought 4 bags of bread. Each bag has 5 loaves. What is the total number of the loaves?



#### Lessons 21, 22



# Match each story problem to the suitable multiplication equation:



Mariam has 4 dresses. Each dress has 5 buttons. What is the total number of buttons?

$$6 \times 9 = 54$$



There are 6 boxes. Each box has 7 cartons of juice. How many cartons of juice are there?

$$4 \times 7 = 28$$



How many days are there in 4 weeks?

$$4 \times 5 = 20$$



The butterfly has 6 legs. How many legs do 9 butterflies have?

$$5 \times 6 = 30$$



There are 5 boxes of crayons. Each box has 6 crayons. How many crayons are there?

$$6 \times 7 = 42$$





#### Find the product, write a suitable story problem:

	<u> </u>	70-06	
 N D DHT DOL	МЭНАА	<u>wiqiibiu</u>	T UUU TIBIT
		900,015	
Multiplica	ition equa	ation 5 × 8	=
 	8	<u> </u>	
Multiplica	tion equa	ation 9 × 2	=
Multiplico	ition equa	ation $5 \times 7$	=
 			***************************************

## Multiples

#### Multiplying by 0 and 1

#### Multiplying by 0: When you multiply a number by zero, the product is zero.

$$6 \times 0 = 0$$

$$9 \times 0 = 0$$

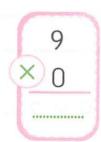
Multiplying by 1: When you multiply a number by 1, the product is the same number.

$$6 \times 1 = 6$$

$$9 \times 1 = 9$$

#### 1 Complete:



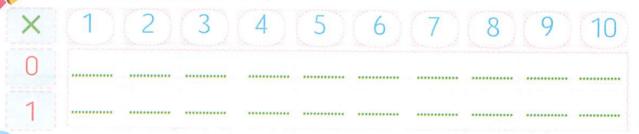








#### Complete the table:



#### 3 Complete the missing number:

$$254 \times 0 =$$
 .....



#### Multiples of (2)



$$2 \times 7 = 14$$

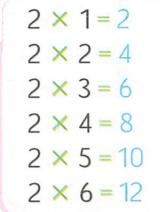
$$2 \times 8 = 16$$

$$2 \times 9 = 18$$

$$2 \times 10 = 20$$

$$2 \times 11 = 22$$

$$2 \times 12 = 24$$



### Match the equal results:

$$7 \times 2$$

12

18

14

## Find the product:

### Complete the table:







































































#### Lessons 23, 24



#### Complete the missing number:

$$\times 2 = 6$$

## 5

#### Find the product:

$$9 \times 0 = \left\{ \right\}$$

$$5 \times 2 = \left\langle \right\rangle$$

$$3 \times 0 =$$

$$2 \times 1 = \left\langle \right\rangle$$

$$1 \times 2 =$$

$$1 \times 0 = \left\langle \right\rangle$$

$$10 \times 0 = \left\{\right.$$

$$4 \times 0 =$$

$$7 \times 2 = \left\langle \right\rangle$$

$$8 \times 0 =$$



### Multiples of (3)



$$3 \times 7 = 21$$

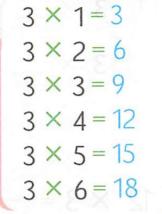
$$3 \times 8 = 24$$

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

$$3 \times 11 = 33$$

$$3 \times 12 = 36$$



## Find the product:

### Match the equal results:

$$3 \times 2$$

$$3 \times 5$$

$$3 \times 7$$

27

24

18

15

 $3 \times 8$ 

3 × 9 3 ×

### Complete the table:



4

(5)(6)(7)

### Lessons 23, 24



### 4 Complete the missing number:

### 5 Find the product:

### Common Multiples of (2,3)

1	2	3	4	5	(6)	7	(8)	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

All multiples of 2 are called even numbers

**Notice** 

Using 120 chart, answer:

Write 10 multiples of (2)

2

Write 10 multiples of (3)

3

Write 5 common multiples of (2 and 3)



Write 5 multiples of 2 greater than 44:



Write 5 multiples of 3 greater than 60:

### Lessons 23, 24



### Multiples of (4)



$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

$$4 \times 11 = 44$$

$$4 \times 12 = 48$$



### Find the product:

$$7 \times 4 = \dots$$

$$4 \times 6 =$$
 .....



### Match the equal results:

$$4 \times 7$$

24

28

8

32

20



### Complete the table:

### Complete the missing number:



### Find the product:

 $0 \times 5 =$ 

5 × 4 = (.....

4 × 9 = (-----

 $4 \times 7 = 0$ 

2 × 2 = (----

4 × 8=

2 × 6= ....

4 × 4 = (----

3 × 6=

7 × 4=

 $3 \times 7 =$ 

5 × 2= ...

2 × 8=

1 × 9=

8 × 0=

4 × 1=

1 × 1= .....

10 × 3=

2 × 9=

 $2 \times 3 =$ 

 $3 \times 4 =$ 

 $3 \times 9 =$ 

5 × 3 =

8 × 3=

3 × 3= .....

4 × 6=

4 × 10=

### Lessons 23, 24



 $5 \times 1 = 5$ 

### Multiples of (5)



$$5 \times 7 = 35$$

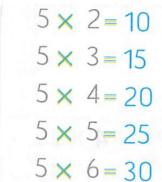
$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

$$5 \times 11 = 55$$

$$5 \times 12 = 60$$



# 1

### Find the product:

# 2

### Match the equal results:



### Complete the table:



### Complete the missing number:

### Choose the correct answer:

$$2 4 \times 5 = \dots$$

$$(20 - 30 - 40)$$

$$(1 - 2 - 0)$$

$$(8 - 9 - 0)$$

$$(4 - 6 - 7)$$

$$(3 - 4 - 5)$$

### Lessons 23, 24



### Multiples of (6)



$$6 \times 1 = 6$$

$$6 \times 2 = 12$$

$$6 \times 3 = 18$$

$$6 \times 4 = 24$$

$$6 \times 5 = 30$$

$$6 \times 6 = 36$$

$$6 \times 7 = 42$$

$$6 \times 8 = 48$$

$$6 \times 9 = 54$$

$$6 \times 10 = 60$$

$$6 \times 11 = 66$$

$$6 \times 12 = 72$$



### Find the product:



### Match the equal results:

42

24

18

36

48



# Compare using (>, < or =):

### Choose the correct answer:

$$1 \quad 6 \quad \times \quad 11 \quad = \quad (66 \quad -24 \quad -18)$$

$$2 \dots \times 6 = 24$$
  $(3 - 4 - 5)$ 

$$3 \quad 5 \quad \times \quad 9 \quad = \quad (18 \quad -45 \quad -54)$$

$$4 5 \times \dots = 30 (7 - 6 - 8)$$

$$5 = 72$$
 ( 12 - 11 - 10 )

$$6 = 9 = 54 \qquad (5 - 6 - 7)$$

$$7 \quad 3 \quad \times \quad \dots = 21 \quad (5 \quad -6 \quad 7)$$

$$8 5 \times = 35 (5 - 6 - 7)$$

### Lessons 23, 24



### Multiples of (7)



$$7 \times 1 = 7$$

$$7 \times 2 = 14$$

$$7 \times 3 = 21$$

$$7 \times 4 = 28$$

$$7 \times 5 = 35$$

$$7 \times 6 = 42$$

$$7 \times 7 = 49$$

$$7 \times 8 = 56$$

$$7 \times 9 = 63$$

$$7 \times 10 = 70$$

$$7 \times 11 = 77$$

$$7 \times 12 = 84$$



### Complete the missing number:

$$\times$$
 7 = 63

$$\times$$
 7 = 63  $\times$  7 = 70



### Match the equal results:

$$7 \times 7$$

$$7 \times 5$$

49

$$7 \times 8 08$$

56



63



### Complete the table:





### Answer the following:

A worker works 7 hours a day. How many hours does he work in 5 days?

Kenzi has 6 bags of apples. Each bag has 7 apples. What is the total number of the apples?

Karim bought 3bars of chocolate for 9pounds each. How many pounds did Karim pay?

In P.E class, the students stood in 4rows. Each row had 7students.

How many students were there in the class?

### Lessons 23, 24



### Multiples of (8)



$$8 \times 1 = 8$$

$$8 \times 2 = 16$$

$$8 \times 3 = 24$$

$$8 \times 4 = 32$$

$$8 \times 5 = 40$$

$$8 \times 6 = 48$$

$$8 \times 7 = 56$$

$$8 \times 8 = 64$$

$$8 \times 9 = 72$$

$$8 \times 10 = 80$$

$$8 \times 11 = 88$$

$$8 \times 12 = 96$$



### Find the product:

$$7 \times 8 =$$
 _____



# Match the equal results:



### Choose the correct answer:

32	80
$3 \times 8$ $4 \times 8$ $2 \times 8$	$10 \times 8  9 \times 8  1 \times 8$
64	856 × 9
$2 \times 8 \ 4 \times 8 \ 8 \times 8$	8 × 8 7 × 8 10 × 8



### Complete the table:

X	(1)	2	3	4	5	6	7	8	9	10
8		X				<u>~</u> ×	S			0 X



### Answer the following:

Hani bought 7 pens for 8 pounds each. How much did Hani pay for the seller?

There are 8 cars. Each car has 4 wheels. What is the total number of the wheels?

There are 8 boxes. Each box has 10 cartons of juice. What is the total number of juice cartons?



### Multiples of (9)



$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9 \times 10 = 90$$

$$9 \times 11 = 99$$

$$9 \times 12 = 108$$

### Find the product:

$$3 \times 9 =$$

$$3 \times 9 =$$
  $2 \times 9 =$ 



### 2 Compare using (>, < or =):





### Complete the table:

X

here are 2 boxes Each box has 11 carta 2 3 4 5 6 7 8



### Match the equal results:

$$7 \times 9$$



### Choose the correct answer: toubong and brill

$$(32 - 52 - 72)$$



# Multiples of (IO)



$$10 \times 1 = 10$$

$$10 \times 2 = 20$$

$$10 \times 3 = 30$$

$$10 \times 4 = 40$$

$$10 \times 5 = 50$$

$$10 \times 6 = 60$$

$$10 \times 7 = 70$$

$$10 \times 8 = 80$$

$$10 \times 9 = 90$$

$$10 \times 10 = 100$$

$$10 \times 11 = 110$$

$$10 \times 12 = 120$$

### Choose the correct answer :: sound and acord

### Complete the table:

1 2 3 4 5 6

10

# Compare using (>, < or =):

$$3 \times 10$$





### Match the equal results:

10 × 5

$$10 \times 7$$

70

80

50

40

30

60

10 × 3

10 × 6

10 × 4



### Complete the missing number:

### Lessons 23, 24



### Find the product:

4

6

6

7

3 × 9

x 9

4

X 12 9

× 5

2

8

4

8

8

3

8

X 9

X 4

× 5

5

× 3

8

× 6

6

× 5

8

× 11

12

× 8

12

6

X 6 5

× 7

8

X 5

× 10

8

x 2

X

8

× 8

× 11

12

x 2

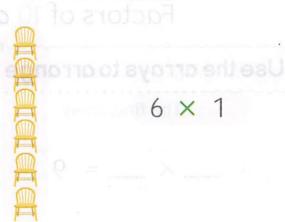
Chapter (3) Lesson (25)

We have 6 chairs. How many different arrays can we create?









### Notice

$$1 \times 6 = 6 \times 1 = 6$$

$$2 \times 3 = 3 \times 2 = 6$$

Factors of 6 are (1, 2, 3, 6) lo 210007



## Answer as the previous example:

Use arrays to arrange 8 balls, then write the factors of 8.

The first array





The second array

Factors of 8 are (_____, ___, ___)



### Lesson

Use the arrays to arrange 10 marbles, then write factors of 10.

The first array

Factors of 10 are (_____,___,___,___

Use the arrays to arrange 9 balls, then write factors of 9.

The first array

The second array

Factors of 9 are (....., .....)

Use the arrays to arrange 4 stars, then write factors of 4.

The first array

Factors of 4 are (.....



### Vrite the factors as the example: (1) (1) (1)



1 × 15

 $3 \times 5$ 

Factors of 15 are (1, 3, 5, 15)



35

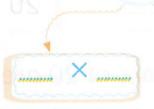
Factors of 35 are

(....., , ......., , ........)



Factors of 14 are

( ...... , ...... , ...... , ......



Factors of 25 are

Factors of 21 are





Factors of 22 are

### Lesson 25



### Complete, then write the factors of each number:

### Factors of 12 are

### Factors of 18 are

$$24 = 1 \times 24 = 2 \times 24 = 3 \times 24 = 4 \times 2$$

$$24 = 2 \times ...$$

### Factors of 24 are

### Factors of 20 are

### Circle the correct answer:

- One of the factors of 12
- 5 7 4)
- One of the factors of 28
- 7 8 9)
- One of the factors of 63
- 6 8 7)
- One of the factors of 45
- (8 9 6)
- One of the factors of 72
- 5 8 7)

### Chapter (3) Lessons (26, 27)

# Telling time

It points to hand is

11 12 1 the minutes hand is

11 12 1 the the long minutes

12 10 11 12 1 the the long minutes

13 11 12 1 the the long minutes

14 points to minutes

15 16 5 1 the points to minutes



a quarter of an hour 15 minutes



half an hour 30 minutes



3 quarters 45 minutes



an hour 60 minutes

## 1

### Write the time on the digital clock as the example:

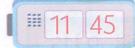


















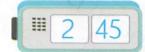


### Lessons 26, 27



### Draw the clock hands as the example:







6 15



10 30



3 15



7 45



800



4 45



11 00



2 15



5 30



1 45

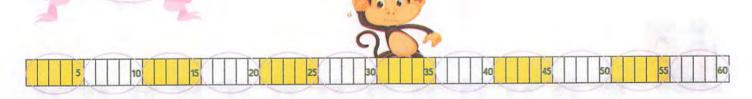


9 15

### Reading and writing the time to 5-minutes.

### An hour = 60 minutes





When the long hand points to (1) it means that (5) minutes have passed. When it points to (2), so (10) minutes have passed

Example: The hour hand is between (1 and 2). The minutes hand points to (7). So, the time is after one o'clock.

No. of minutes =  $7 \times 5 = 35$  minutes. So, the time is 1:35 (one thirty five)

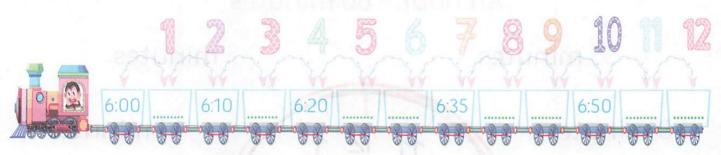


1 35

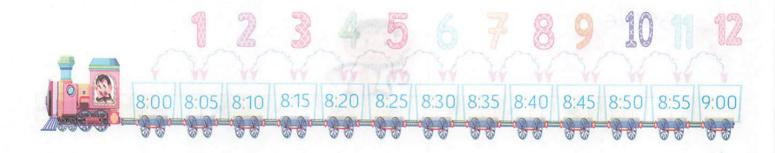
### Lessons 26, 27

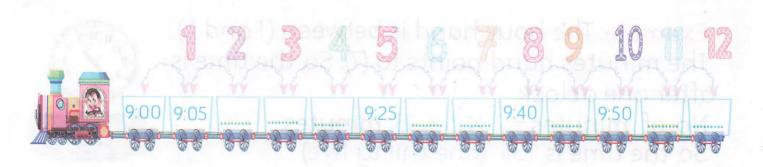


### Complete as the example to represent an hour:











### Draw the clock hands to show the time:







12 20



12 35



12 50



12 10



12 25



12 40



12 55



12 15



12 30



12 45



1 00

### Lessons 26, 27



### Write the time on the digital clock: and ward





### Draw the minutes hand according to the time:













05









8 10









### Lessons 26, 27

### Elapsed Time

Amr started running at 3:00

He finished running at 3:30





5 10 15 20 25 30

3:00 3:05 3:10 3:15 3:20 3:25 3:30



Elapsed time = 30 minutes



### Complete as the example:

Start	Finish	Elapsed time
400	4 25	25 minutes
1 10	150	minutes
12 05	12 30	minutes
11 12 1 10 2 10 3 8 7 6 5	11 12 1 10 2 8 7 6 5	minutes
11 12 1 2 10 2 -9 3- 8 7 6 5	11 12 1 10 2 10 3 8 7 6 5	minutes

### The following table shows the daily activities for Story problems involving time

Mum put the cakes in the oven at (7:00). When she took them out, the time was as shown in the picture. How long did the cakes take in the oven?..



Omar left school at (3:00). When he reached home, the time was as shown in the picture.

How long did Omar take to walk from school to home?



3 hatasta enoM narlw world water

Mahmoud likes running. He started running at (7:00). When he finished, the time was as shown in the picture.

How long did Mahmoud run?



### Lessons 26, 27



The following table shows the daily activities for the pilot, Sameh: Verni amalding vic

Activities	Times			
	Start	Finish		
Getting up and having food	6:30	7:30		
Going to the airport	7:30	8:00		
Plane take off	8:45	9:00		
Period of the flight	9:00	12:00		
Plane landing	12:00	12:30		



- How long does the plane take to take off?
- 2 Which takes longer time, plane take off or plane landing? .....
- 3 How long does the flight take?_____
- The two clocks below show when Mona started and finished tidying up her room:

### How long did Mona take? Start

- - One hour 3 An hour and a half
- 2 Half an hour 4 Two hours and a half







### Tick (✓) below the typical time to the analog clock:







1	111	6	10
		O	





1 11 10

















### Chapter (3) Lessons (28, 29)

# Division



### Division: it is the operation which makes equal groups

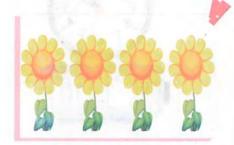


Example

Make 3 equal groups out of 12 flowers







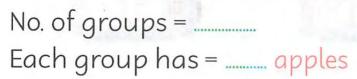
12 flowers were divided into 3 groups. So there were 4 flowers in each group.



### Answer as required:

Make 2 groups out of 10 apples





Make 3 groups out of 18 bottles



No. of groups = ..... bottles

Make 4 groups out of 12 balloons





Make 3 groups out of 6 cups

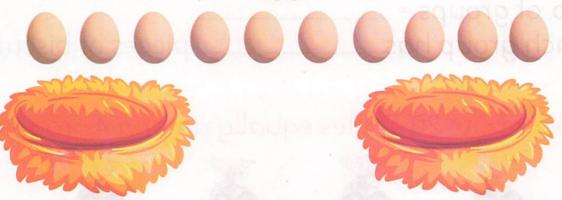
No. of groups = .....

No. of groups = .....

Each group has = ..... balloons Each group has = ..... cups

Answer the following:

Distribute 10 eggs to two nests.



Each nest has _____eggs

Distribute 6 pieces of cake to two plates.



Each plate has _____pieces of cake

### Lessons 28, 29

A. Echany	Divide 1	5 fish into	o 3 equal	groups.
100	Rook To			

Rio Rio Rio Rio

No. of groups = _____ fish

Divide 25 pieces of biscuits into 5 equal groups.











No. of groups = _____ Each group has _____ pieces of biscuits

Distribute 20 apples equally among 4 groups.









No. of groups = _____ Each group has _____apples

Distribute 9 marbles equally among 3 groups.







No. of groups = ....

Each group has _____ marbles |

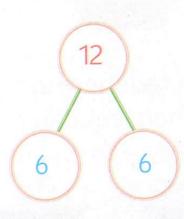
Salma bought 12 flowers. She wanted to share them equally with her friend, Hana.

How many flowers did each one have?







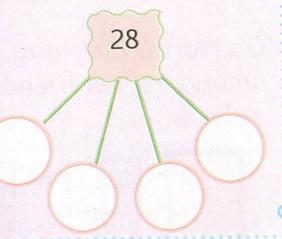




### Answer the following:

There are 28 fish. Put them into 4 aquariums. How many fish are there in each aquarium?



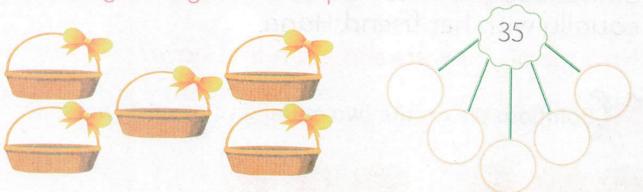


No. of aquariums =

No. of fish in each aquarium = _____fish

### Lessons 28, 29

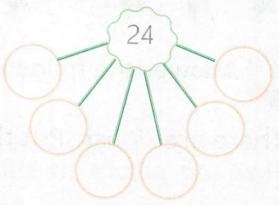
Sameh prepares baskets for oranges. He has 35 oranges. He wants to divide them equally into 5 baskets. How many oranges will he put in each basket?



A teacher has 24 crayons. She wants to distribute them equally among 6 students.

How many crayons will each student take?

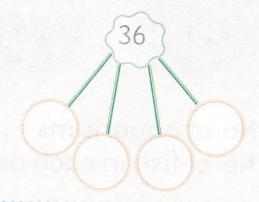




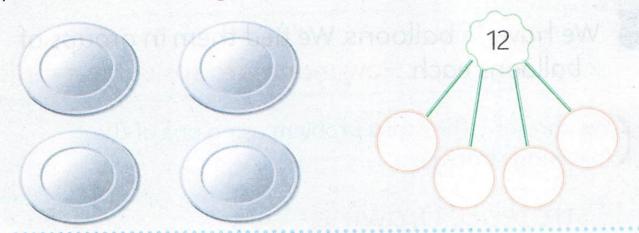
On Mona's birthday, she distributed 36 balloons among 4 of her friends.

How many balloons did each friend have?





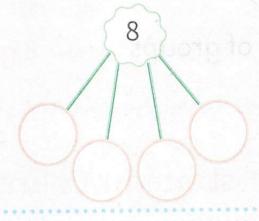
Salma wanted to distribute 12 cookies equally to 4 plates. How many cookies are there in each plate?



Amin distributed 8 apples among 4 of his friends without keeping any apples for himself. How many

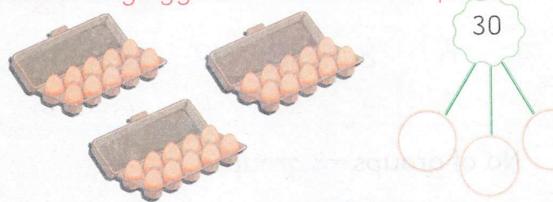






Ahmed has 30 eggs. He wanted to put them equally in 3 plates.

How many eggs are there in each plate?



### Lessons 28, 29



### Other strategies for division



We have 16 balloons. We tied them in groups of 2 balloons each. How many groups can we make?

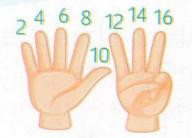


We can solve this story problem using one of the following strategies.



### 2nd strategy: Counting by multiples

Counting on by raising a finger each time.



No. of groups = 8 groups



## Solve the following story problems as the previous example:

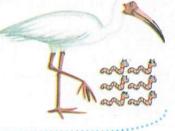
Each cat eats 2 fish. We have 18 fish.

How many cats can be fed?



An ibis eats 6 worms. We have 24 worms.

How many ibis can be fed?



Each frog must eat 8 insects. We have 32 insects.

How many frogs can be fed?



Each crocodile eats 5 fish. We have 35 fish.

How many crocodiles can be fed?



### Lessons 28, 29

Each ox eats 4 bales of grass daily.
We have 28 bales. How many oxen can be fed?



Salma saves 5 pounds a day.

How many days does she need to save

40 pounds?



Each person eats 3 loaves of bread daily. We have 24 loaves of bread. How many people can be fed?



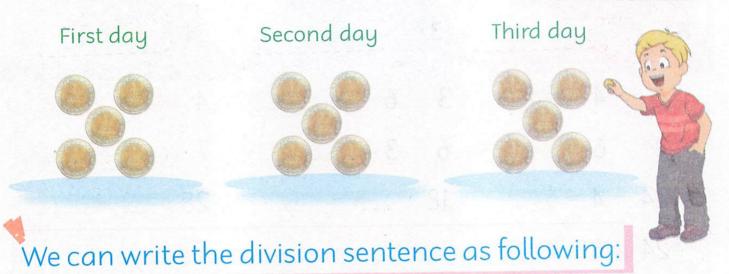
Each student takes 4 notebooks. We have 36 notebooks. How many students can we give notebooks?

Chapter (3) Lesson (30)

## multiplication between multiplication and division



Ahmed spends 15 pounds in 3 days. How much money does Ahmed spend a day?



dividend



quotient

We can say: 15 divided by 3 equals 5.

Practise

Shady distributed 12 apples equally among 4 of his friends. How many apples did everyone have?

Everyone's share = 12 ÷ 4 = 3 apples



### 1) Write the missing factor in each triangle, then write the multiplication and division facts as the example:

$$6 \times 4 = 24$$

$$3 \times 6 =$$

$$4 \times 6 = 24$$

$$24 \div 4 = 6$$

$$24 \div 6 = 4$$

32

36

20

× _____=

____× ___ = ____

.....÷ ...... = .....

____÷ ___ = ____

72

____× ___= ____



### Match the multiplication sentence to the division facts:

$$3 \times 5 = 15$$

$$3 \times 8 = 24$$

$$6 \times 9 = 54$$

$$5 \times 7 = 35$$

$$8 \times 7 = 56$$

$$54 \div 6 = 9$$

$$54 \div 9 = 6$$

$$56 \div 7 = 8$$

$$56 \div 8 = 7$$

$$15 \div 3 = 5$$

$$15 \div 5 = 3$$

$$24 \div 3 = 8$$

$$24 \div 8 = 3$$

$$35 \div 5 = 7$$

$$35 \div 7 = 5$$



### Find the quotient:

$$27 \div 3 =$$

$$35 \div 7 =$$



### Complete the missing number:

# Review on Chapter Three



### Find the result:

$$7 \times 4 =$$



### Write the fact families for each set of numbers:



### Match the equal products:

$$3 \times 4$$

$$6 \times 4$$

$$4 \times 4$$

$$6 \times 3$$

$$3 \times 8$$

$$2 \times 6$$

$$2 \times 9$$

$$2 \times 8$$



### Compare using (<, > or =):



$$3 \times 6$$

$$3 \times 7$$

$$4 \times 3$$



$$8 \times 6$$

### Draw the clock hands to show the time:















**11** 05 55

### **Review**



### Match the clock to the suitable time:



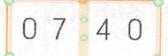














### Color the correct answer:

Twenty past five

0 5:30

0 5:20

0 5:15

Ten to eleven

10:50

11:10

11:50

Twenty to two

0 1:50

0 2:20

0 1:40

Twenty to five

0 4:40

0 4:30

0 4:45



### Read and complete:

start of the party



Karim celebrated his birthday.

end of the party



Elapsed time is _____hours



### Choose the correct answer:

One of the multiples of 6 (6	3 -	35 -	36)
------------------------------	-----	------	-----

$$\sim$$
 One of the multiples of 3 (30 - 13 - 5)



### Complete the multiples of the following numbers, then answer:

The multiples of 3	9,	15,,,
--------------------	----	-------

The common multiples of 5 and 10 are

The	common	multiple:	s of 3 and	4 are



## Use the 120 chart to write the multiples of 5 that are between 13 and 47:



Use the 120 chart to write the common multiples of 2 and 3 that are less than 20:

### Review



There are 5 boxes of crayons. Each box has 8 crayons. What is the total number of the crayons?



There are 7 bunches of flowers. Each bunch has 6 flowers. What is the total number of the flowers?



Salma distributed 12 cookies equally in 3 plates. How many cookies were there in each plate?

No. of cookies = ____ cookies



Mazin has 24 books. He wanted to put them in 4 boxes. How many books will he put in each box?

No. of books = ____ books

## Chapter Four



Lesson (31) **Polygons** 

F Lessons (32, 33) Attributes of quadrilaterals

Lessons (34, 35) Area

Lesson (36) Creating rectangles with equal areas

Lesson (37) Strategies of measuring area

Lessons (38-40) Distributive property of multiplication

## Chapter Four Outcomes

### Lesson (31)

Identify the attributes of two-dimensional shapes. - Define categories based on attributes.

Sort two-dimensional shapes based on their attributes. — Define polygon and parallelogram.

### Lessons (32,33)

Describe the attributes of quadrilaterals.

Apply rules to sort quadrilaterals.
 Compare and contrast quadrilaterals.

- Combine quadrilaterals to create a picture. - Sort quadrilaterals using a Venn diagram.

- Create a bar graph representing quadrilaterals to create a picture.

### Lessons (34,35)

- Use manipulatives to build rectangles with specified dimensions.

- Calculate the area of rectangles in square units.

- Determine the area of rectangles using strategies related to multiplication.

#### **Lesson (36)**

- Create and describe multiple rectangles with the same area.

Explain and model the commutative property of multiplication.

### **Lesson (37)**

- Define area in their own words. - Apply strategies to measure area.

### Lessons (38-40)

Divide arrays into smaller arrays to solve multiplication problems.

Explain the Distributive property of multiplication.

- Explain why dividing arrays makes it easier to solve multiplication problems.

- Apply the Distributive property to solve multiplication problems.

Model the Distributive property of multiplication using arrays.

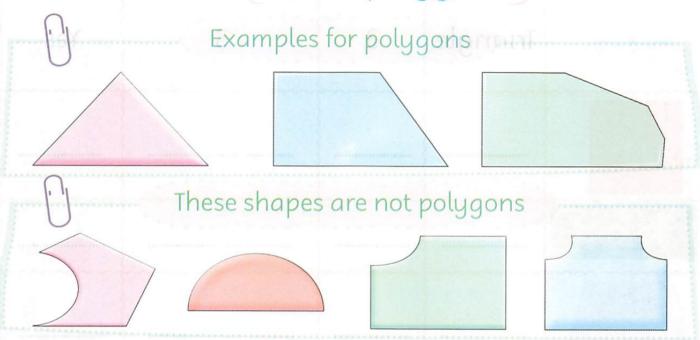
- Reflect on understanding of multiplication and the Distributive Property of multiplication.

Apply the Distributive property to solve multiplication problems.

Lesson (31)

## Chapter (4) dw smm Clay (2) Oldst ent etelamo

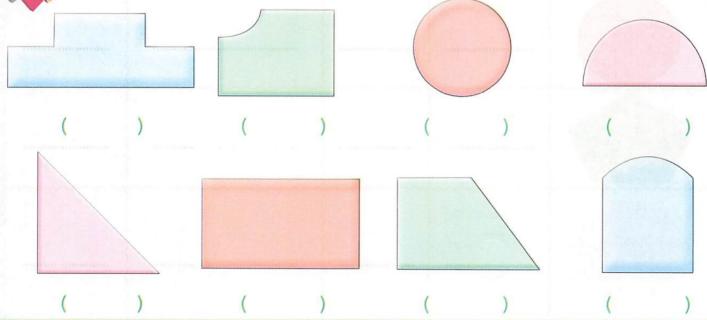
### Learn polygons



The polygon is a closed two-dimensional shape with three or more sides.



### Tick (✓) below the polygon:

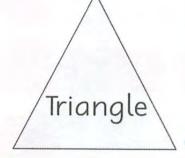


### Lesson 31

Complete the table and determine whether the shape is a polygon or not as the example:

Shape	Name	No. of sides	No. of vertices	Polygon
	Triangle	3	3	Yes
		***************************************		





.....vertices .....sides Square

.....vertices

Rectangle

____vertices

Parallelogram

.....vertices .....sides Circle

.....vertices .....sides Trapezium

.....vertices

Rhombus

.....vertices

Pentagon

.....vertices

Hexagon

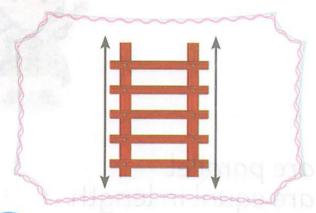
.....vertices .....sides

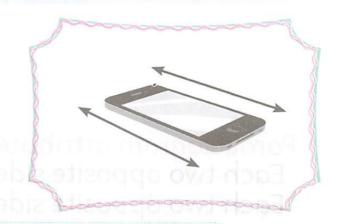
## Lesson 31 Write the name of the two-dimensional shape, then circle the similar shapes: 5) Read, write the name of each shape according to its attributes, then circle it: This shape has 5 sides and 5 vertices Name This shape has no sides or vertices. Name This shape has 3 sides and 3 vertices. Name ..... This shape has 6 sides and 6 vertices Name

### Two parallel lines

**Parallel lines** 

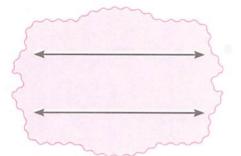
can go on forever and never intersect.



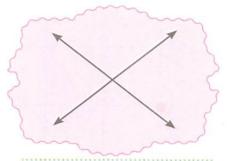




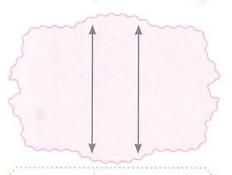
### Color the correct answer as the example:



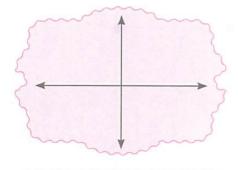
parallel not parallel



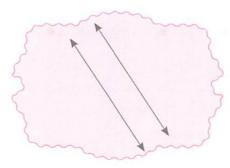
parallel not parallel



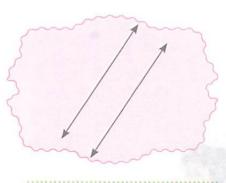
parallel not parallel



parallel not parallel



parallel not parallel



parallel not parallel

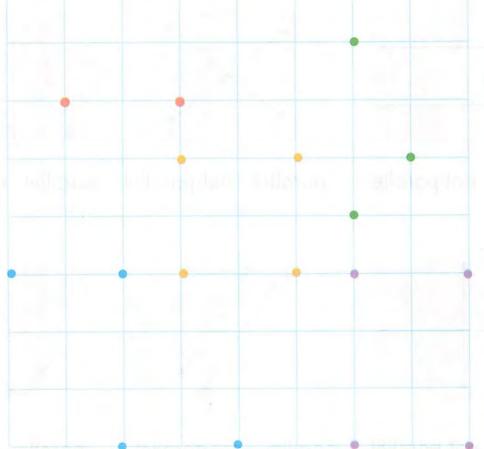
### Parallelogram

Parallelogram is a quadrilateral with opposite sides parallel.



- Parallelogram attributes
   Each two opposite sides are parallel.
   Each two opposite sides are equal in length.







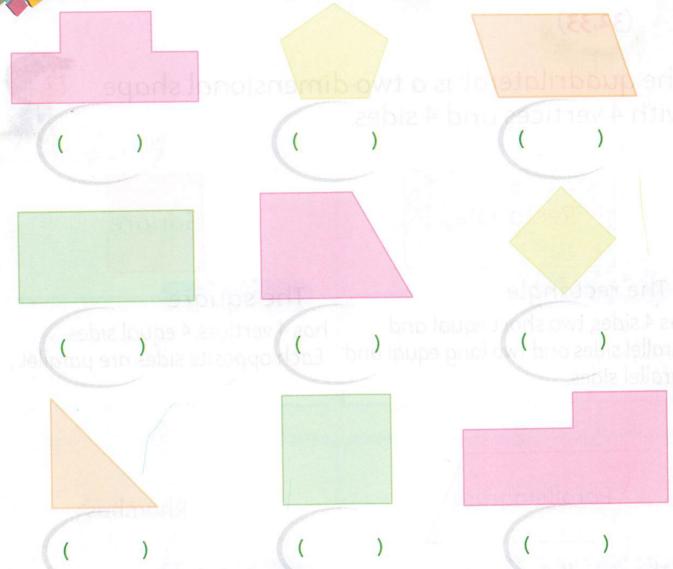
The square, rectangle and rhombus are parallelogram.







### Tick (✓) below the parallelogram:

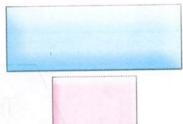




### Write the name of each parallelogram:

1 .....

3 .....







### Chapter (4) Lessons (32,33)

# Attributes of quadrilaterals

The quadrilateral: is a two-dimensional shape with 4 vertices and 4 sides.



#### Rectangle

### The rectangle

has 4 sides, two short equal and parallel sides and two long equal and parallel sides.



### The square

has 4 vertices, 4 equal sides. Each opposite sides are parallel .

Parallelogram

#### The parallelogram

has 4 vertices and 4 sides. Each two opposite sides are parallel and equal.

Rhombus

#### The rhombus

has 4 vertices, 4 equal sides. Each two opposite sides are parallel.

Trapezium

### The Trapezium

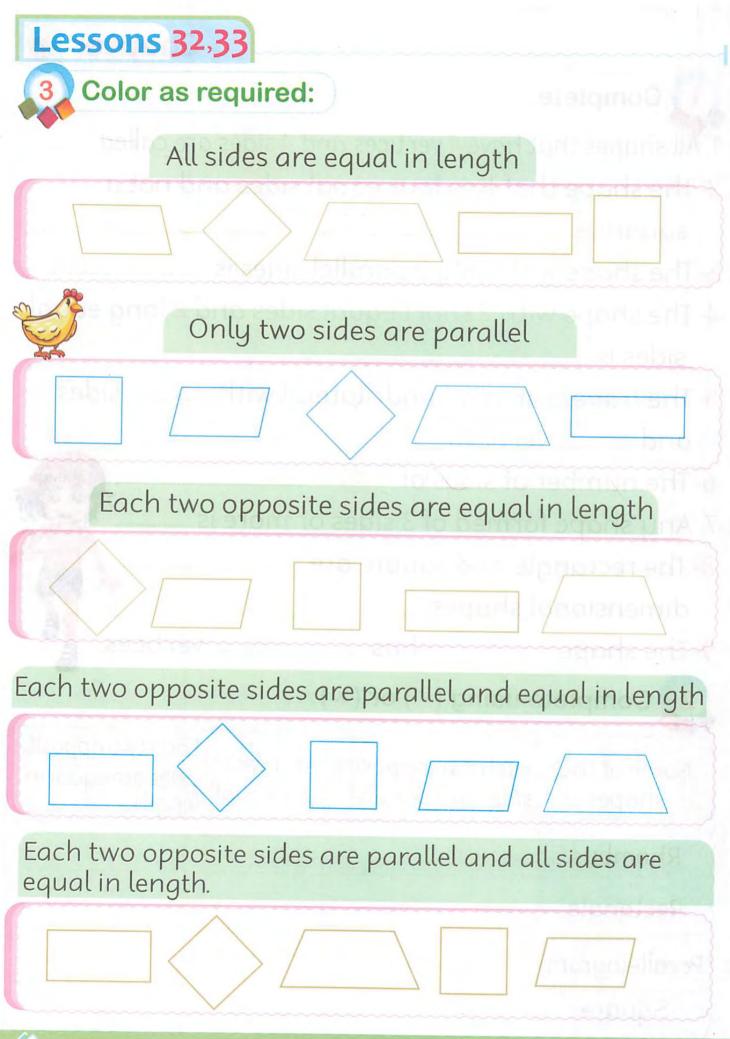
has 4 vertices with only two parallel sides.





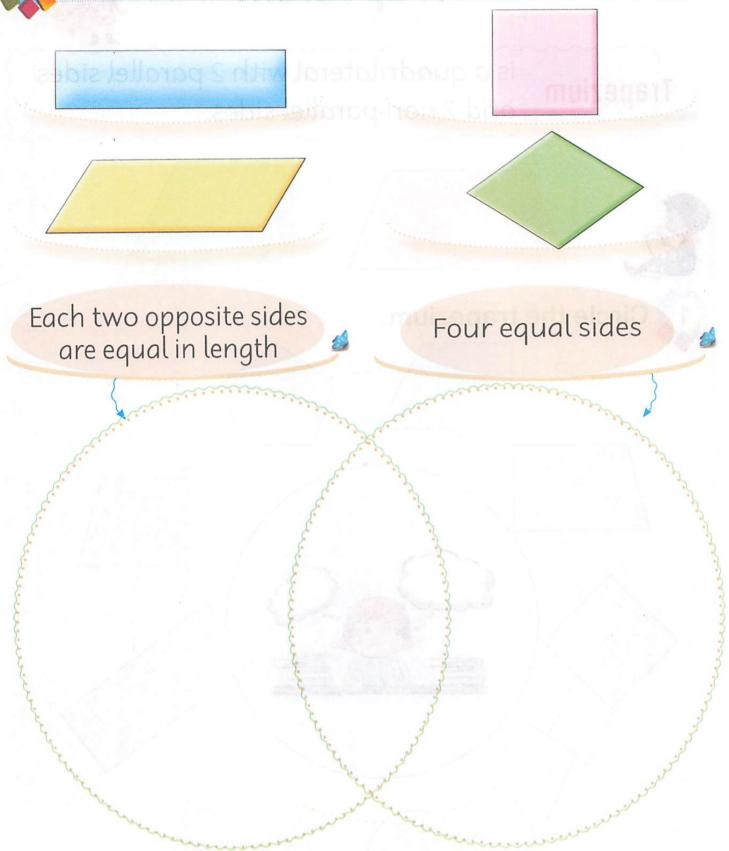
1 Complete	ete: : :bs:mups-ss:10100			
1- All shapes that have 4 vertices and 4 sides are called				
2- The shape th	nat has four equa	al sides ar	nd not a	
square is				
	ith only <mark>2</mark> paralle			
	ith <mark>2</mark> short equa	l sides an	d 2 long equal	
sides is			sidos	
	ım is a quadrilat	eral with	Sides	
andv			***************************************	
6- The number of sides of				
7- Any shape formed of 3 sides or more is				
8- The rectang	le and square ar	~e		
dimensiona	l shapes.			
9- The shape hasvertices.				
2 Complete	e using (✓) or (×	): pable a //	Ereliwoppins	
Name of the shapes	Each two opposite sides are parallel	All sides are equal	Each two opposite sides are equal in length	
Rhombus	a lu ipilàl'anna en	esur el	egge awar fished	
Rectangle	·		dipart militama	
Parallelogram				

Square





### Use Venn diagram to classify the following shapes:



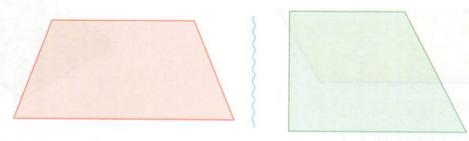
### muisagesThe following shapes:



Trapezium

is a quadrilateral with 2 parallel sides and 2 non-parallel sides.







Circle the trapezium:





Color each shape, its name and its attributes in the same color:



Square



a quadrilateral that has only one pair of parallel sides.



Rectangle



a quadrilateral that has 2 long equal sides and 2 short equal sides



Trapezium



a shape with no sides or vertices



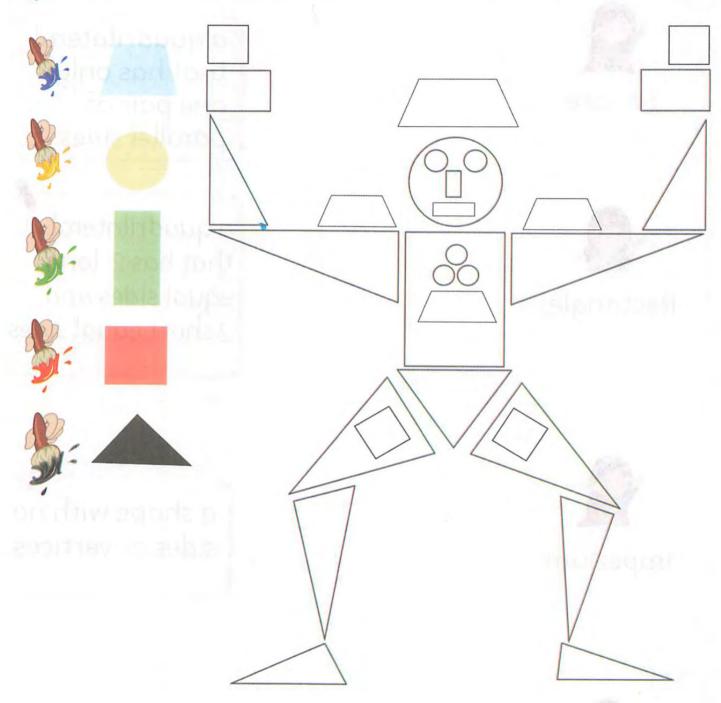


a quadrilateral with <mark>4 equa</mark>l sides

### Lessons 32,33



### Color using the code:

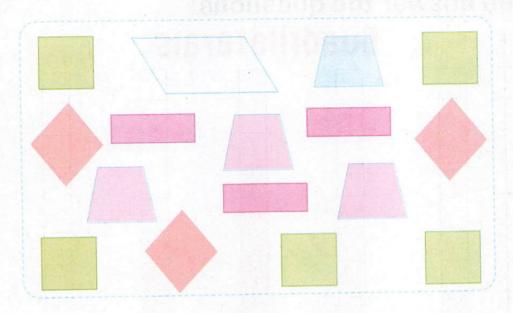


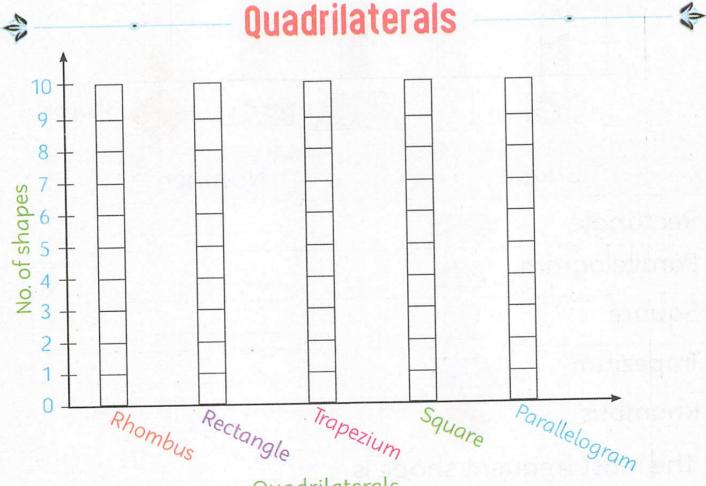
meduribani utemi





### Represent number of quadrilaterals on the bar graph:





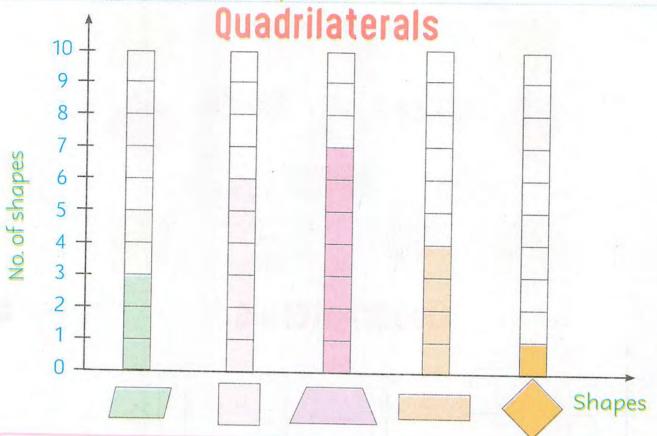
Quadrilaterals

- Which shape has the greatest number?.
- 2 Which shape has the smallest number?_____

### Lessons 32,33



Complete the following table using the bar graph, then answer the questions:



Shape	Number
Rectangle	
Parallelogram	
Square	
Trapezium	***************************************
Rhombus	

- *The most frequent shape is _____
- *The least frequent shape is
- *The difference between the most frequent and the least frequent shapes is

### Chapter (4) Lessons (34,35)

## Area

Area

is the number of square units needed to cover a surface.

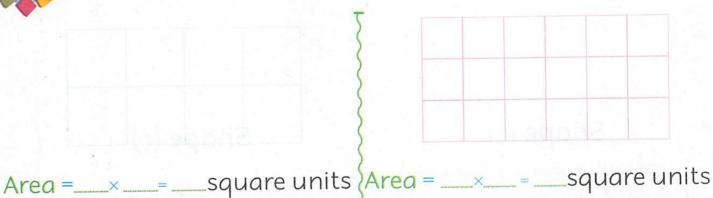
1	2	3	4
5	6	7	8
9	10	11	12

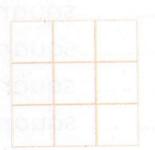
No. of squares = 12

Area = No. of rows  $\times$  No. of columns Area =  $3 \times 4 = 12$  square units



Calculate the area of each shape:





Area =___x __ = ___square units Area = __



× = square units

### Lessons 34,35



### Calculate the area of rectangles in square units:



Shape (1)



Shape (2)



Shape (3)



Shape (4)



Shape (5)



Shape (6)

Area of shape (1) =	square units.
A	square units.
Area of shape (3) =	square units.
Area of shape (4) =	square units.
Area of shape (5) =	square units.
Area of shape (6) =	square units.





### Calculate the area of the following arrays as the example:



The area =  $3 \times 5 = 15$ 

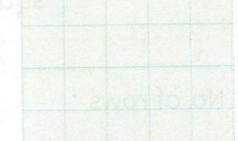
- 1			
- 1			
- 1			1.0
			7
- 1			
- 1			
- 1		- 1	



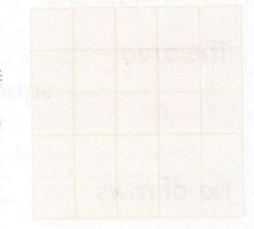
The area = X



The area = X = =



The area = X



The area = X = ____



#### Lessons 34,35



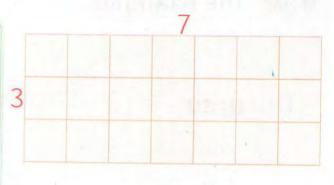
#### 4 Calculate the area of the following rectangles:

No. of rows = 3

No. of columns = 7

The area = ____X___

=.....square units

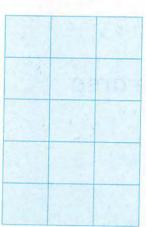


No. of rows =

No. of columns = _____

The area = ______ X _____

= ..... square units

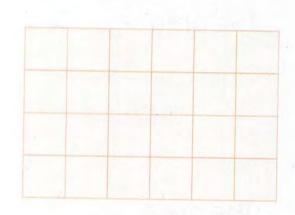


No. of rows = ____

No. of columns = .....

The area = ______ X _____

=___square units

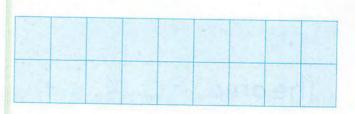


No. of rows =

No. of columns = ____

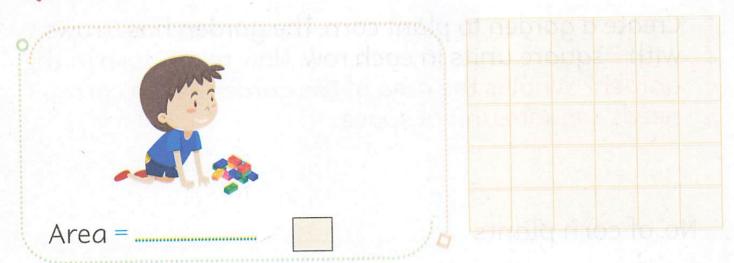
The area = ____X

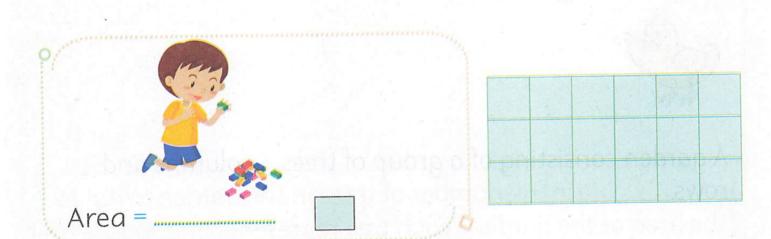
square units

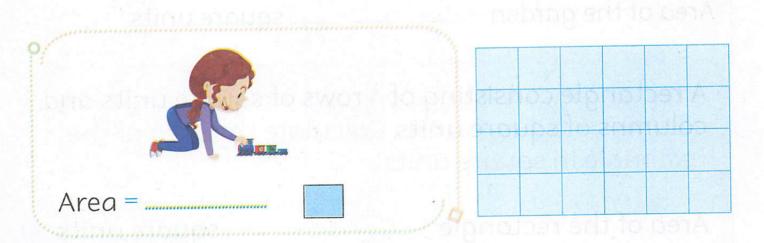




#### Calculate the area of the following shapes:







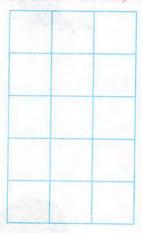
#### Lessons 34,35



#### Answer the following questions:

Create a garden to plant corn. The garden has 5 rows with 3 square units in each row. How much corn in the garden? What is the area of the garden? Each corn needs 1 square unit of space.

Area of the garden =





A garden consisting of a group of trees, 6 columns and 4 rows. Calculate the number of trees in the garden. What is the area of the garden? Each tree represents one square unit.

No. of trees = _____ trees

Area of the garden = _____ x ___ square units

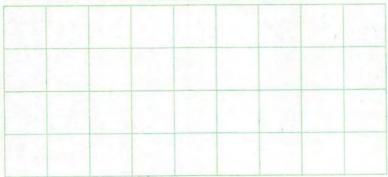
A rectangle consisting of 4 rows of square units and 3 columns of square units. Calculate the area of the rectangle in square units.

Area of the rectangle = _____ x ___ square units

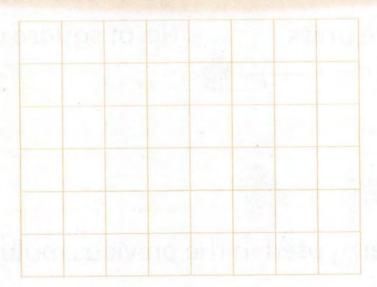


### Draw rectangles on the grid using the required dimensions:

A rectangle with dimensions of 5 units and 3 units.



A rectangle with dimensions of 7 units and 4 units.

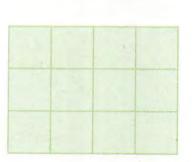


A rectangle with dimensions of 6 units and 2 units.

#### ith equal areas Creating rectangles V

Chapter (4) Lesson

(36)



No. of rows =

No. of columns =

No. of square units



No. of rows = .....

=.....

No. of columns = .....

No. of square units

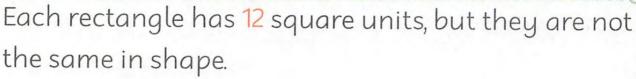






The property used in the previous multiplication sentence is _____





Shapes maybe different but still have the same area.

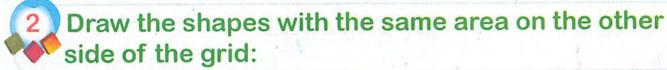


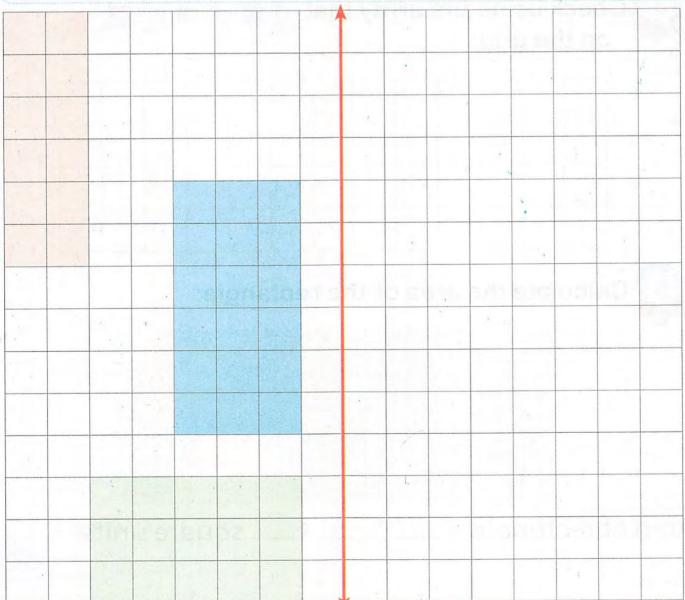


The area of rectangle  $(4\times3)$  = The area of rectangle  $(3\times....)$ 

The area of rectangle  $(5\times2)$  = The area of rectangle  $(......\times5)$ 

The area of rectangle (....×6) = The area of rectangle (....×5)









Draw an array to find the product of 🥒 🗯 :

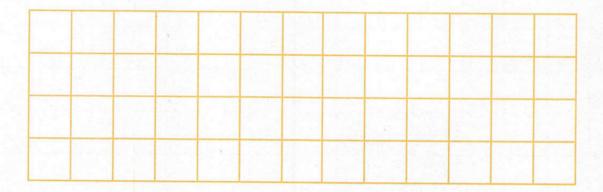


16			9 19,0		irm)	139	
	in R						



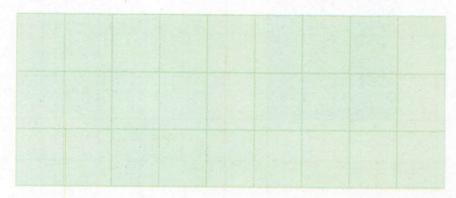
Check using the array that 📑 🗱 🚑 💻 🚑 🥞 🥞 on the grid:







Calculate the area of the rectangle:



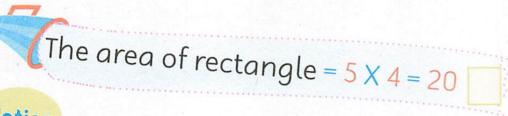
Area of rectangle = _____ x ___ square units

#### Chapter (4) Lesson (37)

## Strategies of measuring area

To calculate the area of the rectangle, we should know the two dimensions through the number of rows and columns

No. of rows =  $\frac{5}{100}$  No. of columns =  $\frac{4}{100}$ 





No. of rows and columns represent the two dimensions of the rectangle.

No. of horizontal squares represent the first dimensions of the rectangle.

No. of horizontal squares represent the first dimension.

No. of vertical squares represent the second dimension.



#### Calculate the area of the rectangle using square units:

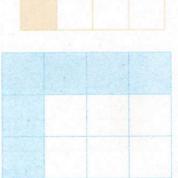
The first dimension =......

The second dimension =.....

The area of rectangle = ......X



The first dimension =......
The second dimension =......
The area of rectangle = ......X



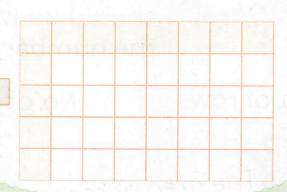


#### Lesson 37



#### Calculate the area of the following shapes:

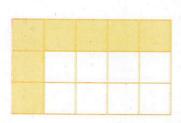
The area = _____ X ____ = ____



The area = _____ X ___ = ___

The area = _____ X ____ = ___

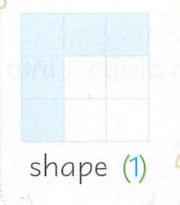


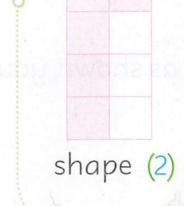


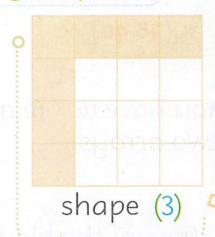
The area = ____ X ___ = ___

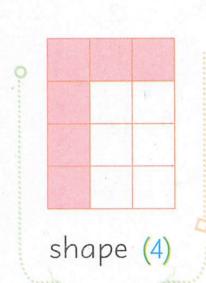


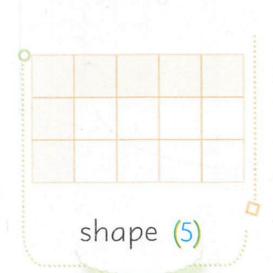
#### Calculate the area of the following shapes:













Shape	Area
(1)	X =
(2)	X =
(3)	X =

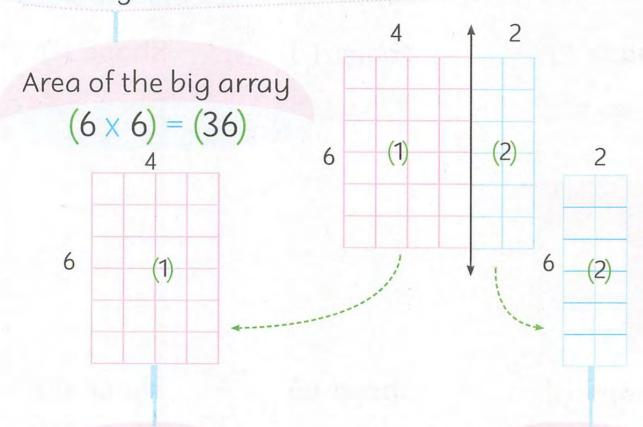
Shape	Area
(4)	X =
(5)	X =
(6)	X=

Chapter (4) Lesson

## Distributive property of multiplication

(38-40)

You have  $(6 \times 6)$  array as shown, you can divide it into two arrays.



Area of the array

$$(6 \times 4) = 24$$

Area of the array

$$(6 \times 2) = 12$$

The total area of the two arrays = 24 + 12 = 36 square units

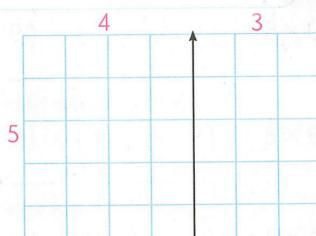
This is called distributive property. If it is difficult to find the area of the shape, you can divide it into smaller areas to find its area easily.

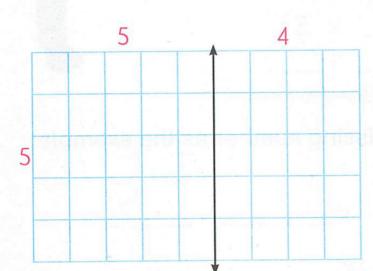




### Calculate the area of the following arrays using the distributive property:

The area of the array =



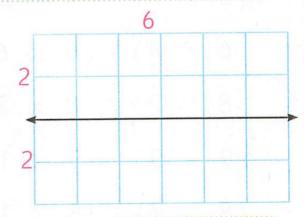


? The area of the array

= ..... square units

The area of the array

= ..... square units



- 6 2
- The area of the array = (..... X .....) + (..... X ......)

= .....square units

#### Lessons 38-40



#### 2 Find the missing numbers to find the product:

$$9 \times 5 = (9 \times ....) + (9 \times ....)$$



### 3

#### Complete by writing the missing number as the example:

$$(4 \times 2) + (4 \times 3) = 4 \times 5 = 20$$

$$(5 \times 7) + (5 \times 2) = 5 \times \dots = \dots = \dots$$

$$(6 \times 4) + (6 \times 6) = 6 \times \dots = \dots = \dots$$

$$(8 \times 2) + (8 \times 3) = 8 \times \dots = \dots$$

$$(9 \times 9) + (9 \times 1) =$$
  $\times 10 =$ 

$$(8 \times 7) + (8 \times 1) =$$

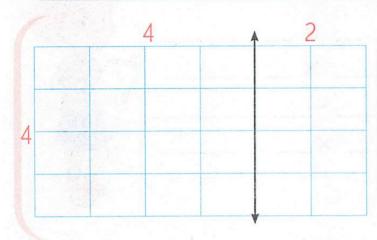
$$(2 \times 2) + (2 \times 2) = 2 \times \dots = \dots$$

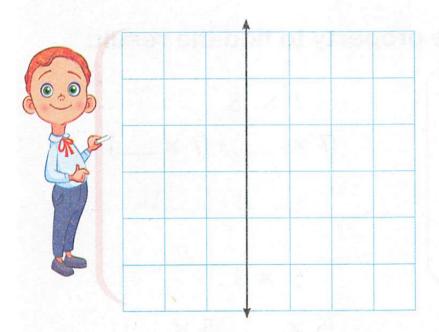
$$(10 \times 3) + (10 \times 4) = 10 \times \dots = \dots$$

$$(6 \times 9) + (6 \times 1) =$$
  $\times 10 =$ 

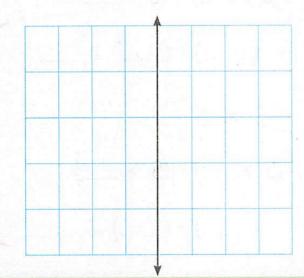


### Using distributive property, find the multiplication product of the array:





X	=	
XX	=	
+	=	
X	=	



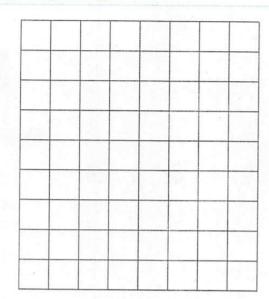
X	=
X	=
+	=
X	=

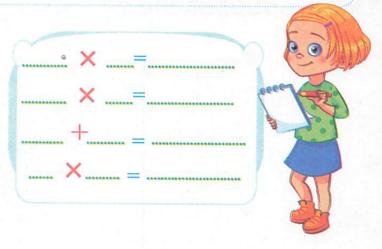


#### Lessons 38-40



5) Break apart the array according to the distributive property:





### 6) Use the distributive property to find the result:

$$\left(\begin{array}{c} \left(\begin{array}{c} \\ \end{array}\right) + \left(\begin{array}{c} \\ \end{array}\right) = \\ \end{array}\right)$$



#### First way

3 × 8 Second way

$$7 \times 7$$

#### First way

$$\times$$
 6

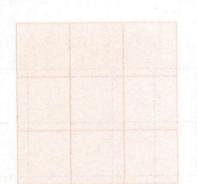
Second way

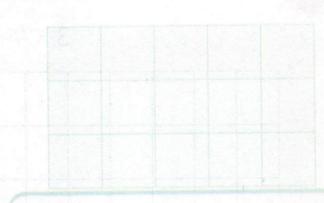
## Review on Chapter Four

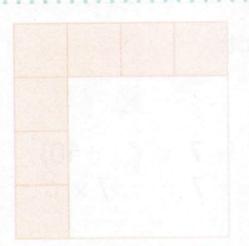
Write the name of each shape:	
Circle the shape as required an	d write its name:
It has 4 equal sides	
	Name
It has two long equal sides and two	short equal sides.
	Name
It has two parallel unequal sides.	
	Name
198 Math Chapter (4)	



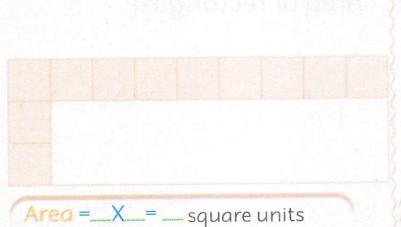
#### Calculate the area of each shape:











#### Review



Find the multiplication product of 3  $\times$  9 on the grid:

	T			 	 	,			- >
		10							
							-	-	
					9.0				
15									



Complete to find the product:







Complete:

Area of rectangle  $(\underline{\phantom{a}} \times 6)$  = Area of rectangle  $(\underline{\phantom{a}} \times 5)$ 

$$(4+5) \times 10 = (4 \times __) + (5 \times __) = __+ = __$$

$$(6+3) \times 8 = ($$
_____  $\times$ ___) + (____  $\times$ ___) = ___ + __ = ___

## Chapter Five



- Lessons (41, 42) Perimeter of polygons
- Lesson (43) Estimating the perimeters of polygons in centimeters
  - Lessons (44,45)Perimeter and area
  - Lesson (46) Applying a variety of strategies to solve area problems
  - Lesson (47) Constructing different rectangles with the same area
  - Lesson (48) Constructing different rectangles with the same perimeter
  - Lesson (49) Perimeter and area story problems
  - Lesson (50) Multiplying by 10 and multiples of 10

## Chapter Five Outcomes

#### Lessons (41, 42)

- Measure the lengths of sides of polygons in centimeters.
- Define perimeter
- Calculate the perimeter of polygons in centimeters.
- Explain why perimeter is a linear measurement.
- Distinguish between polygons and non-polygons.
- Describe practical applications for measuring perimeter.

#### Lesson (43)

- Estimate the perimeters of polygons in cetimeters.
- Measure the lengths of sides of polygons in centimeters.
- Calculate the perimeter of polygons in centimeters.
- Explain how to calculate perimeter of polygons.

#### Lessons (44, 45)

- Explain the difference between perimeter and area.
- Calculate the perimeter and area of given arrays with some units missing.
- Explain why area is not a linear measurement.
- Calculate the area of a rectangle given only the length and width.
- Describe the problem solving strategies they used to solve area problems.

#### Lesson (46)

- Apply a variety of strategies to solve area problems.
- Explain the strategies they used to solve area problems.

#### Lesson (47)

- Construct different rectangles with the same area.
- Compare the areas of rectangles with the same perimeters but different dimensions.

#### Lesson (48)

- Construct different rectangles with the same perimeter.
- Compare the areas of rectangles with the same perimeters but different dimensions.

#### Lesson (49)

- Apply strategies to solve real world and perimeter problems.
- Apply their understanding of area and perimeter to write story problems.

#### Lesson (50)

- Multiply by 10 and multiples of 10.
- Identify and explain patterns observed when multiplying by 10s.

#### Chapter (5) Lessons (41,42)

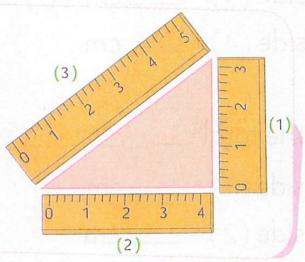
## Perimeter of polygons

Measure each side. Add to find the total.

The length of side (1) = 3 cm The length of side (2) = 4 cm

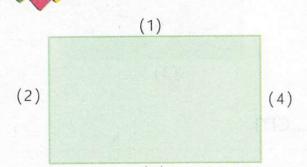
The length of side (3) = 5 cm

The total = 
$$3 + 4 + 5 = 12$$
 cm



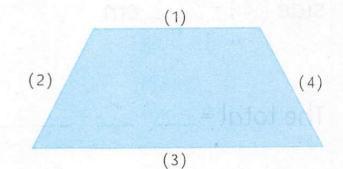
### 1

#### Measure each side and find the total as the previous example:



$$side(3) = \underline{\qquad} cm$$

The total=



$$side(3) = \underline{\qquad} cm$$

side 
$$(4) = \underline{\phantom{a}}$$
cm

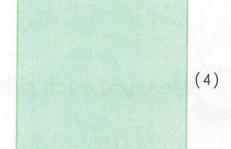
#### Lessons 41, 42



### Find the total length of all sides of the following shapes:

side 
$$(3) = \dots$$
cm

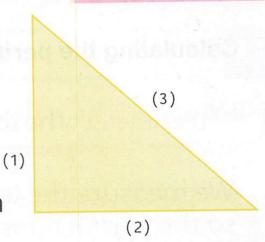
$$side(3) = \dots cm$$



#### (1)

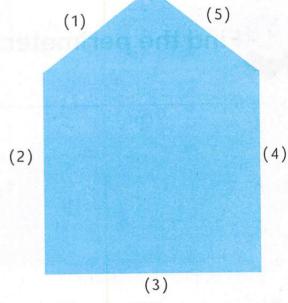
(4)

#### Chapter



$$side(3) = \dots cm$$

side 
$$(5) = \dots$$
cm





Note: The total length of all sides of a polygon is called (perimeter)



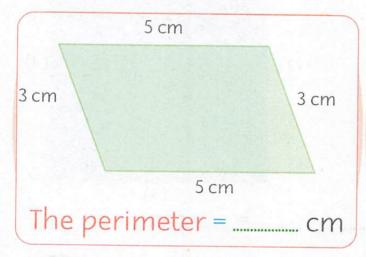
#### Lessons 41, 42

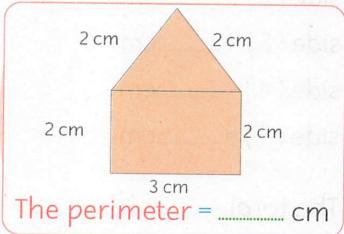
#### Calculating the perimeters of polygons in centimeters

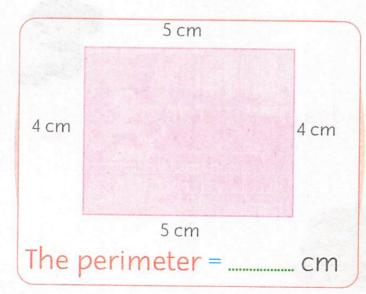
Perimeter: the total length of all sides of a polygon

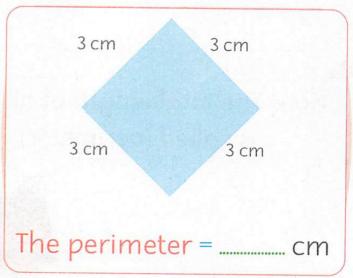
We measure the length of each side so the perimeter is a linear measurement because it determines the length of the outside line of the polygon.

### 1 Find the perimeter.



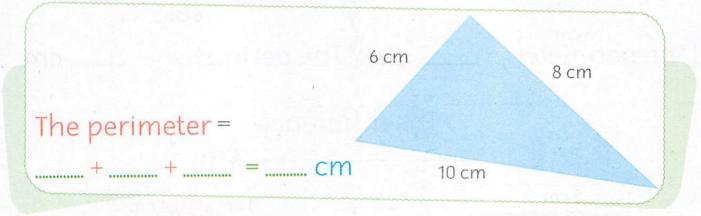








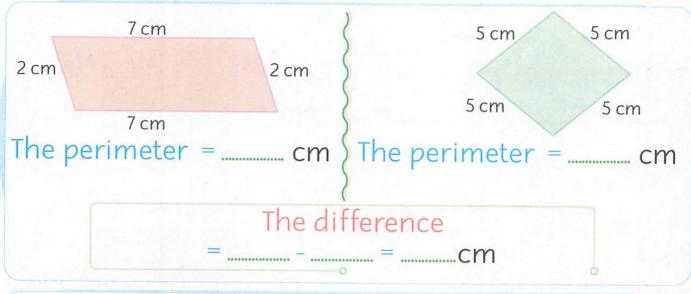
# 7 cm The perimeter = 7 cm 7 cm 7 cm 7 cm

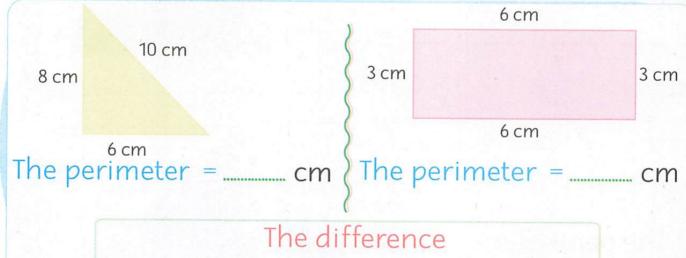


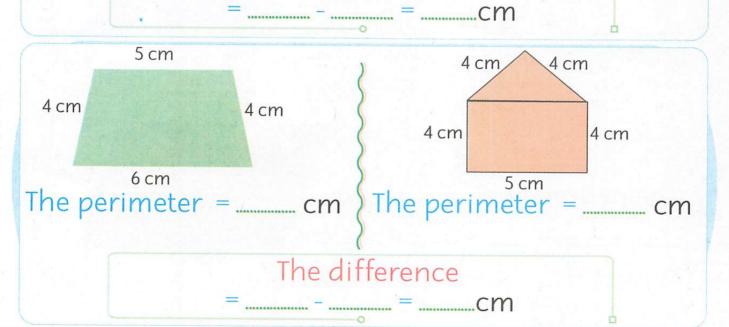
#### Lessons 41, 42



### Find the difference between the perimeters of the two shapes:







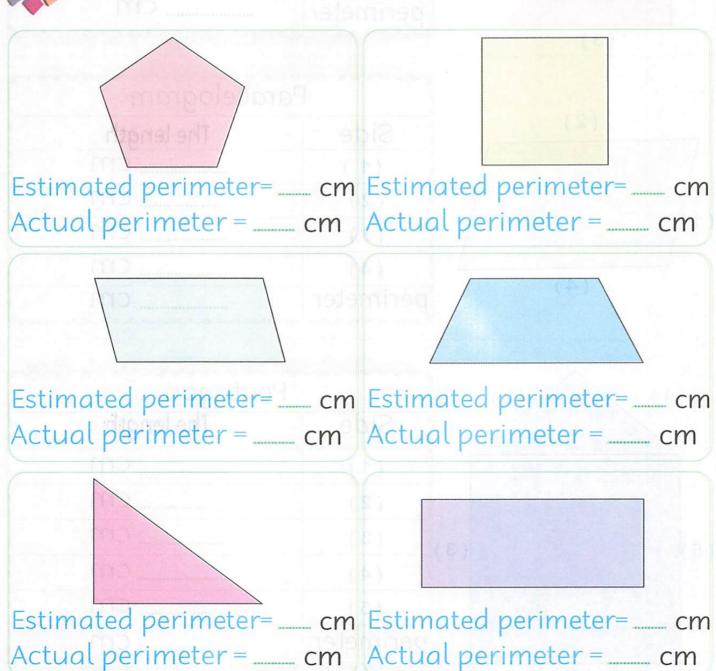
### Chapter (5) Lesson (43)

### Estimating the perimeters of polygons in centimeters (cm)

To estimate the perimeter of any polygon we estimate the total lengths of its sides through guessing



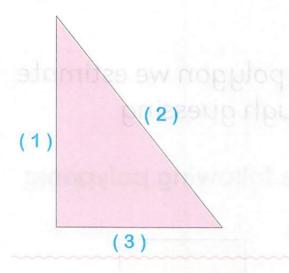
#### Estimate the perimeter of the following polygons:



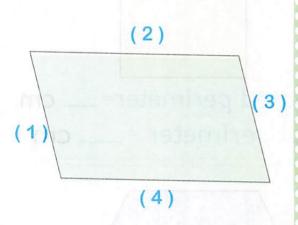
#### Lesson 43



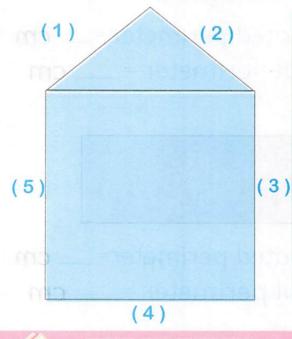
#### Complete the table:



	Triangle
Side	The length
(1)013	at me to tomo managements
(2)	cm
(3)	cm
perimeter	cm



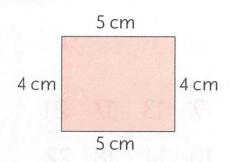
and the second s	
Pai	rallelogram
Side	The length
(1)	cm
(2)	cm
(3)	cm
(4)	cm
perimeter	cm



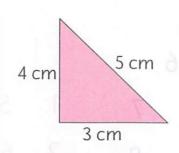
Po con Istur	entagon
Side	The length
(1)	cm
(2)	cm
(3)	cm
(4)	cm
(5)	cm
perimeter	cm



#### Find the perimeter, then arrange ascendingly:

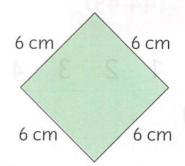


The perimeter = ......cm

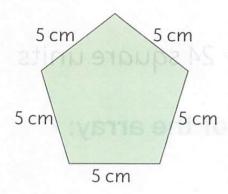


The perimeter = { The perimeter =

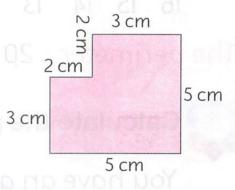
.....cm



The order is: .....



N 3cm 3 cm 3 cm 3 cm 7 cm



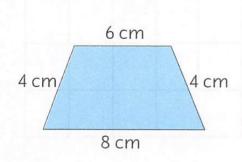
The perimeter =

.....cm .....cm

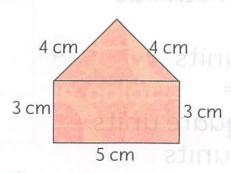
The perimeter = The perimeter =

.....cm

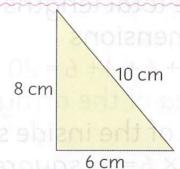
The order is: .....



The perimeter = .....cm



The perimeter =



The perimeter

The order is:

#### Chapter (5) Lessons (44,45)

## Perimeter and area

1	2	2	Λ	_	1
1	2	3	4	5	6

			The same of the sa			
7	1	5	9	13	17	21
8	2	6	10	14	18	22
9 110	3	7	11	15	19	23
10	4	8	12	16	20	24
			8 2 6 9 3 7	8 2 6 10 9 3 7 11	8 2 6 10 14 9 3 7 11 15	8 2 6 10 14 18 9 3 7 11 15 19

16 15 14 13 12 11

The perimeter = 20 units



Area = 24 square units



#### Calculate the perimeter and area of the array:

You have an array 4×6 which consists of 4 rows and 6 columns

#### Perimeter of the array =

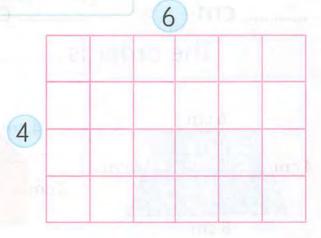
The total lengths of outside dimensions

= 4 + 6 + 4 + 6 = 20 units

Area of the array =

No. of the inside square units

 $= 4 \times 6 = 24$  square units



The unit of the perimeter is a linear unit.

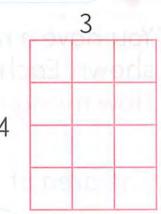
The unit of the area is a square unit.

#### You have an array with 4 rows and 3 columns

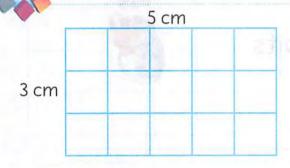


The perimeter of the array = 
$$4+3+4+3=14$$
 units

$$4 \times 3 = 12$$
 square units



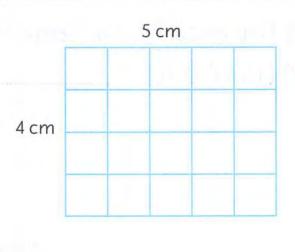
#### Calculate the perimeter and the area:



The perimeter = ......cm
The area = .....square cm

The perimeter = ......cm
The area= .....square cm





The perimeter = ......cm
The area = .....square cm

The perimeter = .....cm
The area= .....square cm

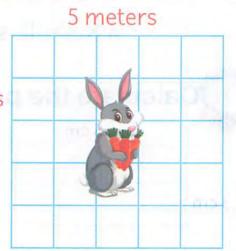
#### Lessons 44, 45



#### Solve the following story problems:

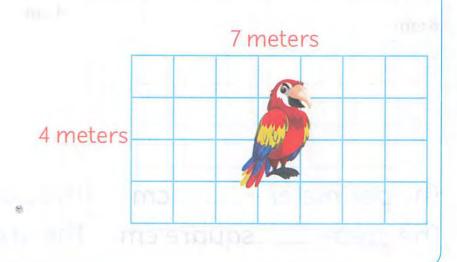
You have a rabbit pen in the form of an array as shown. Each rabbit needs 1 square meter in the pen. How many rabbits are there in the pen?

The area of the pen =	×
=square meters	5 meters
No. of rabbits =	rabbits



You have a cage of parrots.
The cage is in the form of an array.
Each bird needs 1 square meter. Find:

- (1) The area of the cage = ...... square meters
- (2) No. of birds = ..... birds





#### Answer the following questions:

A rectangle with 9cm long and 3cm wide Calculate: (1) The area of the rectangle (2) The perimeter of the rectangle

9 cm

A rectangle with 8m long and 5m wide Calculate: (1) The area of the rectangle (2) The perimeter of the rectangle

8 m

3 cm

5 m

A rectangle with 6m long and 3m wide Calculate: (1) The area of the rectangle (2) The perimeter of the rectangle

6 m

Can we put a group of animals inside it that needs an area of 17 square meters?

#### Lessons 44, 45



You have a pen as shown on the figure. You have a group of animals with area of each pen. Find:

1		1		
6	m	PT	0	rc
0	1 1 1	-	-	

The area = 6 meters

____ × ___ = square meters

The perimeter =

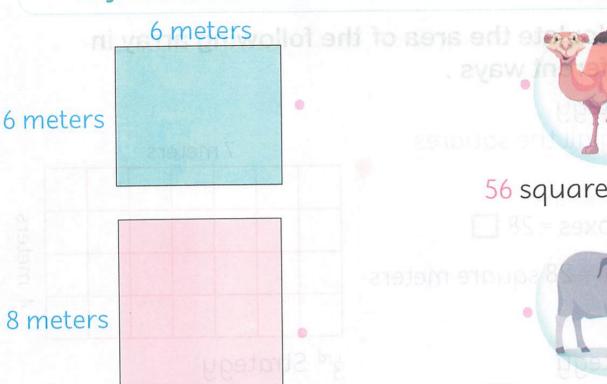
+ _____+ ____ + _____ meters

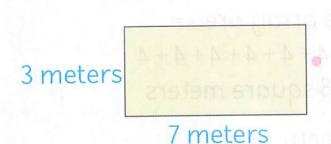


What are the animals that suit the pen area?

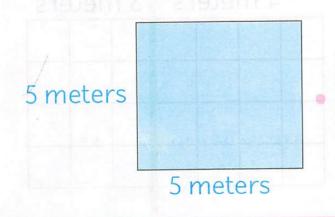
What are the animals that don't suit the pen area?

You have some pens with their dimensions. A group of animals with the area of the pen where they live. Match each animal to the suitable pen:





7 meters





56 square meters



25 square meters



36 square meters



21 square meters

Chapter (5) Lesson

# Applying a variety of strategies to solve area problems

(46)



Calculate the area of the following array in different ways.

1st Strategy

Counting all the squares

No. of boxes =  $28 \square$ 

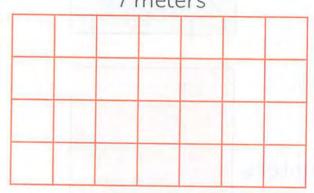
The area = 28 square meters

2nd Strategy Multiplication

The array area =

$$4 \times 7 = 28$$
 square meters

7 meters



meters

3rd Strategy Repeated addition

The array area =

7 + 7 + 7 + 7 = 28 square meters

The array area =

4+4+4+4+4+4

= 28 square meters

4th Strategy

Distributive property 4 meters 3 meters

The array area =  $4 \times 7$ 

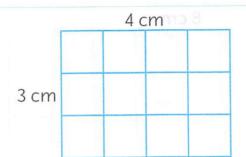
$$=$$
  $4 \times (4+3)$ 

$$= (4 \times 4) + (4 \times 3)$$





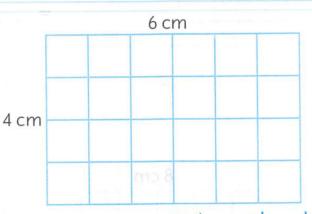
#### Get the area of the arrays in two different methods:



1st method:

The area = ...... The area = .....

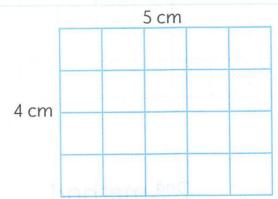
2nd method:



1st method:

: 2nd method:

The area = ...... The area = .....



1st method:

The area = .....

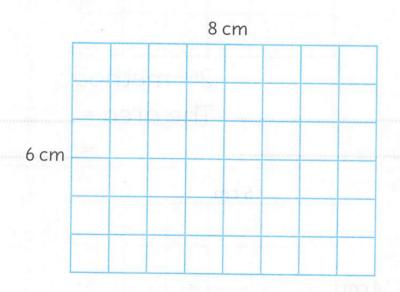
2nd method:

The area = .....

### Lesson 46

Set the area of the arrays in two different methods:

		8 c	m	A.	
3 cm					do 8



1ct	
1 st method :	2 nd method:
-1	Z MELHOU.
The area =	The area =
= 0910.90	16.01.60 = """""""""""""""""""""""""""""""""""
	=



#### Choose the correct answer:

- 11 The area of a rectangle whose dimensions are 8 cm, (12 cm - 24 cm - 32 square cm) 4 cm is
- ² The premiter of a rectangle whose dimensions are 6 cm and 3 cm is (9 cm - 18 square cm - 18 cm)
- 3 You have an array as shown on the figure. The number of columns are ......columns (6-5-18)I have their the words work was well as IT
- 1 To calculate an array area, we must know number (columns only - rows only - both of them)
- 5 The area of a rectangle whose dimensions are 7 cm and 3 cm is (21 square cm - 12 square cm - 20 square cm)
- 16 The area of a rectangle whose dimensions are 8 cm and 5 cm is (40 square cm - 13 square cm - 26 square cm)
- 7 The area of a land with dimensions of 10 m and 7 m is (17 square meters - 34 meters - 70 square meters)
- 18 The area of a poultry pen with dimensions of 9 meters and 7 meters is

(63 square meters - 32 square meters - 23 meters)

# Constructing different rectangles with the same area

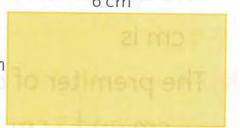
Chapter (5) Lesson (47)

You have a rectangle with dimensions

4 cm

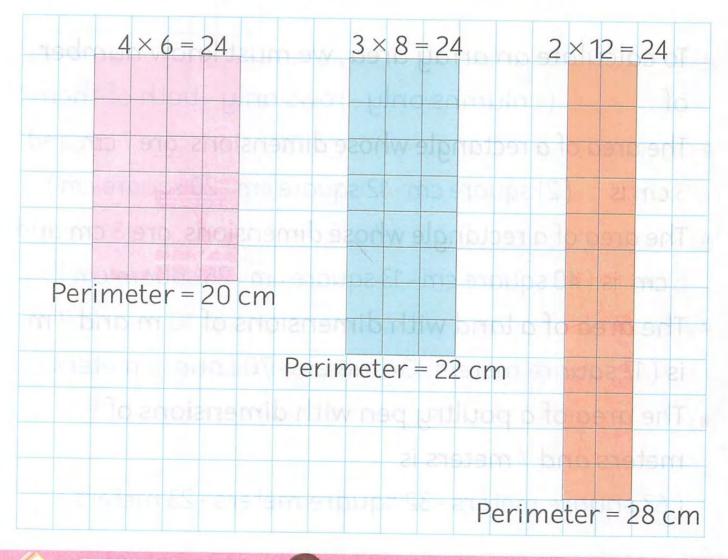
The area = 
$$4 \times 6 = 24$$
 square cm

as shown in the shape:



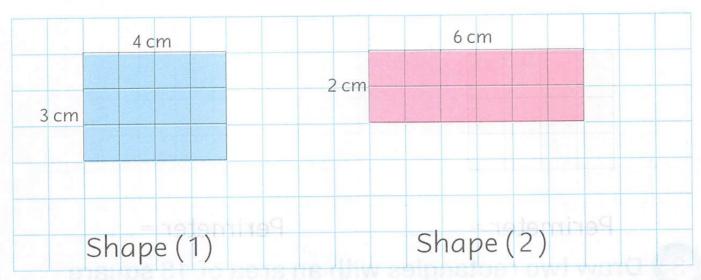
You can draw different rectangles with the same area but different perimeter.

The following ways show that on (the grid)



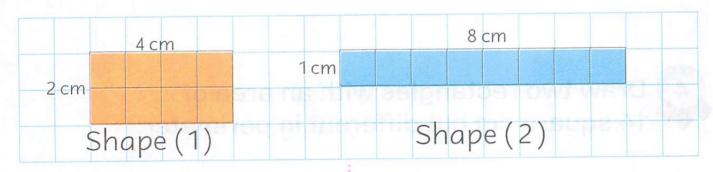


#### Compare the area and perimeter of the two rectangles:



Area of shape (1) (>, <, =) area of shape (2)

Perimeter of shape (1) (>,<,=) perimeter of shape (2)



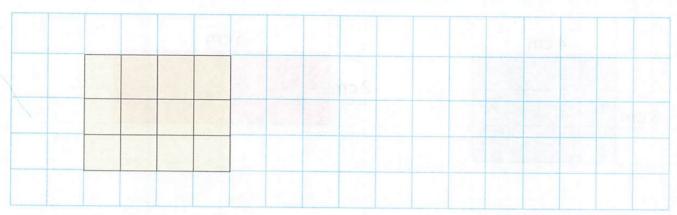
Area of shape (1) (>, <, =) area of shape (2)

Perimeter of shape (1) (>,<,=) perimeter of shape (2)

### Lesson 47



Draw a rectangle with the same area and different perimeter:

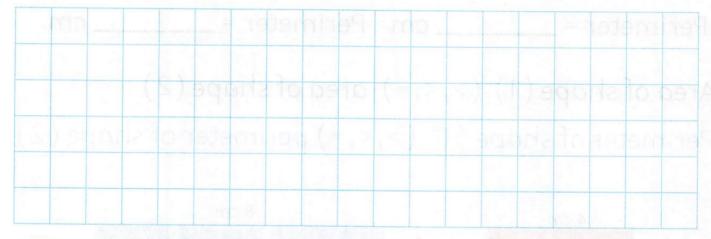


Par	IM	OTOK	_	
1 61	1111	eter	-	

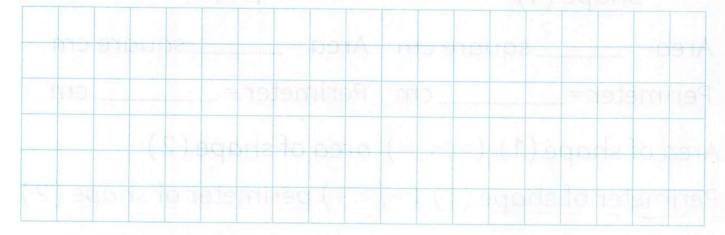
Perimeter = .....



Draw two rectangles with an area of 18 square units but different in perimeter:

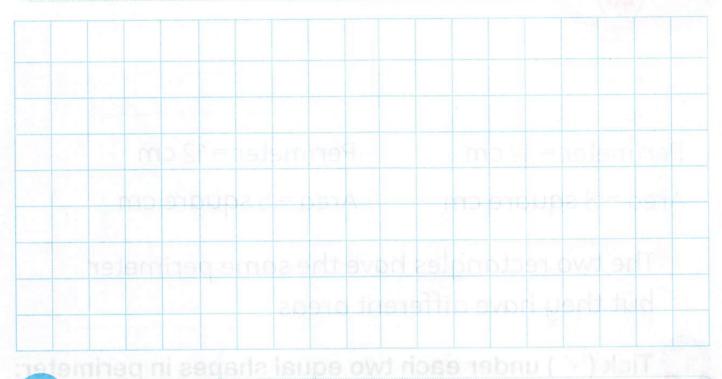


Draw two rectangles with an area of 14 square cm but different in perimeter:



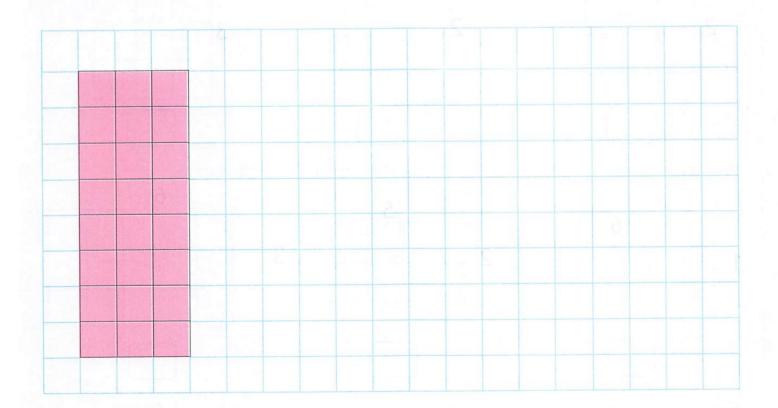


5 Draw two rectangles with an area of 20 square cm but different in perimeter:





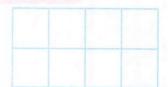
6) Draw a rectangle with the same area of the given one but with different dimensions:



## Constructing different rectangles (5) with the same perimeter

Chapter (5) Lesson

(48)



Perimeter = 12 cm

Area = 8 square cm



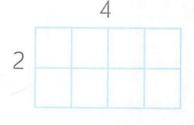
Perimeter = 12 cm

Area = 5 square cm

The two rectangles have the same perimeter but they have different areas.

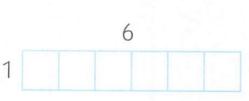
## 1

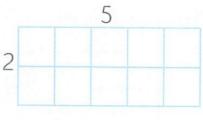
#### Tick ( ✓ ) under each two equal shapes in perimeter:



2

3

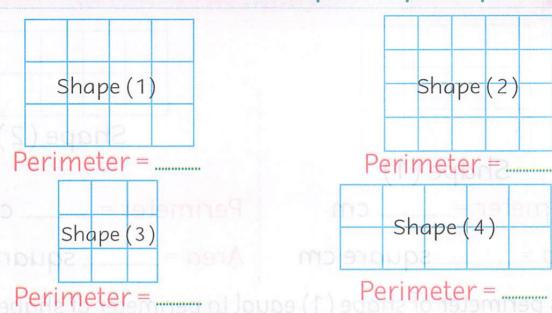








#### Write the number of the two equal shapes in perimeter.



Perimeter of shape (.....) = perimeter of shape (.....)



If you have 10 square units, draw a rectangle, then calculate its perimeter:

	(	W	do	mi	2010	10 1	1180	136		VOI	rigo.		d v	or	a.
S	ns	m	ins	191	tib	110	17:	de	min	90				Bİ:	



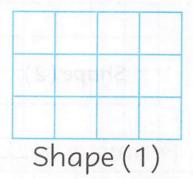
Draw a rectangle with the same perimeter of the given one:

	6 cm							
			2 -					
3 cm								
					1			

### Lesson 48

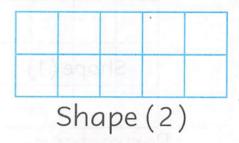


#### Calculate the perimeter and area of the two polygons:



Perimeter = .....cm

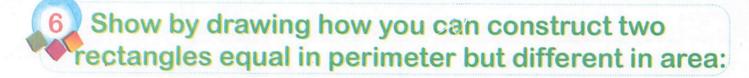
Area = square cm



Perimeter = .....cm

Area = .....square cm

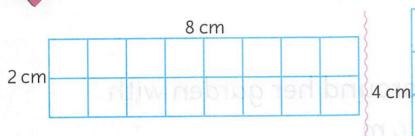
- (1) Is perimeter of shape (1) equal to perimeter of shape (2)?.....
- (2) Is area of shape (1) equal to area of shape (2)?.....
- (3) The two shapes are equal in _____ but different in ____



	0-1	e) 6	ere!	190	e est	2 63	ijin.	V 6	100	10.31	en	6 1	VE	
										911		3VI	Q 9	7
											-01	6 6		



#### Calculate the perimeter and area of the two rectangles:



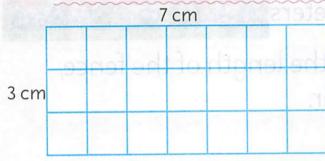
6 cm

Perimeter = .....cm

Perimeter = .....cm

Area = ..... square cm Area = ..... square cm

The two rectangles are equal in .....but different in .....



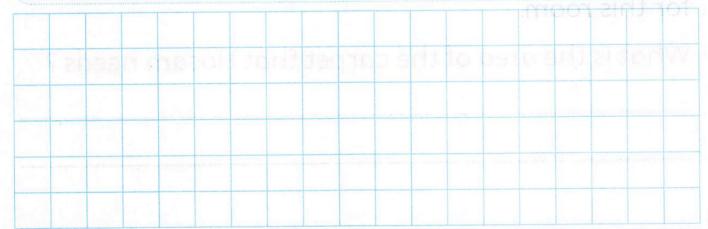
8 cm 2 cm

Perimeter = ..... cm Perimeter = ..... cm

Area = ..... square cm | Area = ..... square cm

The two rectangles are equal in ____but different in ____





### Chapter (5) Lesson (49)

## Perimeter and area story problems

Ayesha builds a fence around her garden with dimensions of 9 m and 6 m

What is the length of the fence?

What is the area of the garden?

Fence perimeter = 
$$(9+6)+(9+6)$$

$$= (15) + (15) = 30 \text{ meters}$$

Garden area=(9 × 6)=54 square meters





Notice: When calculating the length of the fence, we calculate the perimeter.



#### Solve the following story problems:

Hosam has a rectangular room with inside dimensions of 5m and 3m. He wants to buy a carpet for this room.

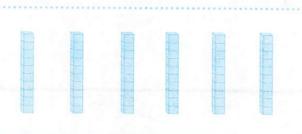
What is the area of the carpet that Hosam needs?

Engi has a rectangular sheet that is 50 cm long and
45 cm wide. Calculate its perimeter.
U3 = U1 × 0
$2 \times 4 = 9$ . $2 \times 40 = 80$
Farouk is building a rectangular patio with a length
of 9 tiles and a width of 8 tiles.
How many tiles does Farouk need to build the patio?

A farmer is building a fence around his rectangular garden. The garden is 8 meters long and 3 meters wide. What is the perimeter of the fence?

Chapter (5) Lesson (50)

# Multiplying by 10 and Multiples of 10



6 tens

$$6 \times 10 = 60$$

#### Notice

$$2 \times 4 = 8$$

$$2 \times 400 = 800$$

$$2 \times 40 = 80$$

$$2 \times 4000 = 8000$$

## 1

## Find the product: 2918 8 70 dibiws bas 2918 90

$$6 \times 8 =$$

$$6 \times 80 =$$



#### Match the equal products:

$$2 \times 60$$

$$5 \times 70$$

$$60 \times 6$$

$$7 \times 50$$

$$6 \times 30$$



#### Find the product using patterns:

$$6 \times 5 =$$

$$6 \times 50 =$$

$$6 \times 500 =$$

$$4 \times 7 =$$

$$4 \times 70 =$$

$$4 \times 700 =$$

$$9 \times 30 =$$

$$9 \times 300 =$$

#### Find the product:

$$3 \times 90 = 7 \times 5000 = 6 \times 800 = \dots$$

$$7 \times 8000 = 4 \times 400 = 6 \times 500 = 6$$

$$4 \times 900 = 7 \times 60 = 7 \times 400 = \dots$$

$$8 \times 300 = 5 \times 600 = 6 \times 600 = \dots$$

$$6 \times 60 = 7 \times 200 = 9 \times 200 = \dots$$

#### Find the missing number:

$$3 \times \boxed{\phantom{0}} = 600 \times \boxed{\phantom{0}} = 800 \times \boxed{\phantom{0}}$$

$$5 \times 100 = 300 \times = 1500$$

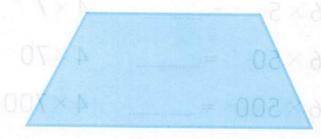
$$7 \times 100 = 1400$$
  $400 \times 100$   $= 1600$ 

# Review on Chapter Five



#### Find the perimeter:





Perimeter =



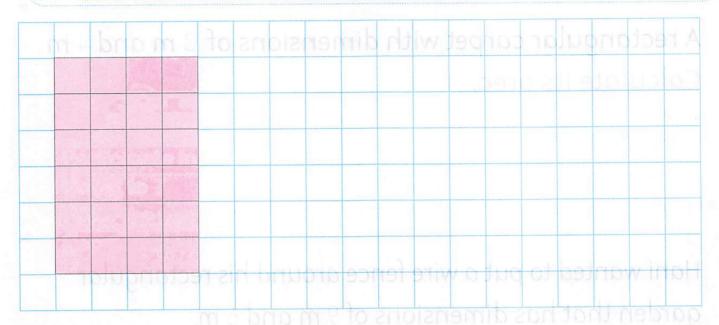
#### Complete:

			UU	BX	0	 	الرا	000	19		1			100	3
			(1)		ò			00	<.4	4			000	18	7
				1	A			.0	(2)	7	4.4		01	90	1
			00	3×	ò			00	(	2					8
	(4	1)	00		6			00	S×				(3)		
			00	ð ×	2										9
						(5	)								
						7.7	90	MAL	n e	nie	alia:	18			

Shape	Perimeter	Area
(1)	cm	square cm
900 × (2) 4500	cm	square cm
0095(3)_×008	cm_	square cm
(4)	cm	square cm
(5)	cm	square cm



#### Draw a rectangle with the same area as the given one but in different dimensions:





#### Draw a rectangle with the same perimeter as the given one:





#### Find the product:

$$3 \text{ tens} \times 5 = \underline{\qquad} \text{tens}$$

$$70 \times 8 =$$

$$= 8 \times 000$$

#### Review



#### Solve the following story problems:

A rectangular carpet with dimensions of 3 m and 4 m. Calculate its area.

Hani wanted to put a wire fence around his rectangular garden that has dimensions of 9 m and 6 m.

What is the length of the wire fence that Hani needs?

Radwa has a rectangular house with. 12 m long and 10 m wide. Calculate the area of the house.

Lamia wanted to build a fence around her rectangular farm. The farm has dimensions of 13 m and 10 m.

Calculate the length of the fence that Lamia needs.

# Chapter Six



- Lesson (51) Multiplying by 10 and multiples of 10
- Lessons (52,53) Multiplying by 9
- Lesson (55) Addition strategies
- Lesson (56) Estimating the sum of two 3-digit numbers
- Lesson (57) Subtraction strategies
- Lesson (58) Addition and subtraction story problems
  - strategies
- Lesson (59) Capacity
- Lesson (60) Measuring capacity

## Chapter Six Objectives

#### * Lesson (51)

- Explain patterns observed when multiplying by multiples of 10.

#### **Lessons** (52, 53)

- Investigate and apply patterns and strategies when multiplying by 9.
- Teach others one strategy for multiplying by 9.
- Identify patterns in multiplication and addition facts.
- Explian how patterns observed in multiplication and addition facts can be helpful when solving problems.
- Apply strategies to solve addition and multiplication facts quickly and accurately.

#### Lesson (54)

- Identify and describe patterns in the place value system up to the hundred thousands place.
- Apply strategies for ordering numbers.

#### (- Lesson (55)

- Apply a variety of strategies to solve addition problems.
- Explain the importance of learning different problem-solving strategies.

#### **Lesson** (56)

- Estimate the sum of two 3-digit numbers.
- Apply a variety of strategies to add two numbers up to four digits.

#### Lesson (57)

- Explain the relationship between addition and subtraction.
- Apply strategies to subtract two numbers up to four digits.
- Use addition to check answers to subtraction problems.

#### Lesson (58)

- Apply strategies to solve addition and subtraction story problems.
- Reflect on learning to identify areas of strength and opportunities for growth.

#### **Lesson** (59)

- Define volume as the measurement of the capacity of a container.
- Explain the relationship between milliliters and liters.
- Estimate the capacity of milliliter of water.
- Identify the best unit to measure the volume of a given container.

#### Lesson (60)

- Read volume measurements on a standard labeled container.
- Write what they have learned about volume measurement.

#### Chapter (6) Lesson

### ultiplying by 10 and Multiples of 10

(51)



#### Complete the table:

1	2	3	048	5	6	7	8	9	10	11	12
TUX OS	×		2	×			D)î	×		50	×



Remember: On multiplying by 10 or its multiples, first we multiply numbers then we add the same number of zeroes

#### Notice

#### Find the product:





#### Find the product:



Multiply the two numbers and write zeroes on the right

1	1	-		
н	30	<		
J	) (	_		

#### 4

.....

......

......



## Color each 2 equations with the same product in the same color:

## 5

#### Answer the following as the example:

$$7 \times 50 = 7 \times 5 \times 10 = (7 \times 5) \times 10 = 35 \times 10 = 350$$

Notice We use ( ) brackets to make multiplication easy and tell us which part we must find first.











Lessons

# Chapter (6)

(52,53) (We'll learn to find out multiplication patterns by 9

						500
X	1	×	9	=	09	
	2	×	9	=	18	
	3	X	9	=	27	
And an owner,	4	×	9	=	36	
	5	×	9	2.6 0	45	
-	6	×	9	=	54	
	7	×	9	G=X	63	
	8	X	9	=	72	
-	9	X	9	CE	81	
1	10	×	9	=	90	
A		e Cirgolity	1			
	TOTAL .				100 mg	



Example: To find the product 4×9 we make.

First step:  $4 \times 9 = 3$  because 4 - 1 = 3

Second step:  $4 \times 9 = 3$  6 because 3 + 6 = 9



The tens digit is 1 less than the first factor, the sum of ones and tens is 9

The ones digit goes down by one each time The tens digit goes up by one each time





#### Write the missing number:

$$7\times9=$$
 3

$$4\times9=$$

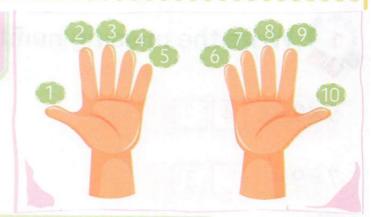
#### Compare using ( > , < or = ):

$$3 \times 3$$

$$8 \times 7$$

#### Lessons 52,53







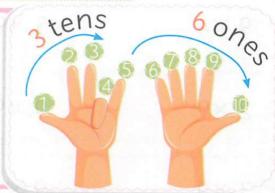
### Find the product





Bend down finger number (4) Fingers to the left represent the tens.

Fingers to the right represent the ones.



## The product is ... 9 X 4 = 36













#### Complete:















#### Find the missing number:

### Multiplying by 10 facts strategy

#### To find the product

 $8 \times 9$ 

First:

8 10 = 80

Second: 80 -

8 = 72

 $\times$  9 = 72

#### To find the product

6×9 08

First.

 $6 \times 10 = 60$ 

Second: 60 - 6 = 54

 $\times$  9 = 54

#### Find the product:

X

X

9

### Lessons 52,53



### Complete the table: Journal griazim and brill

VO)	1	2	3	5			 4.4	12
2						6.3		



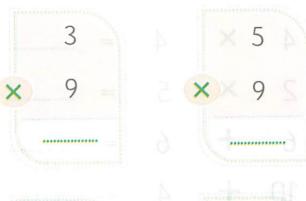
#### Find the missing number:

	3				5			1
×		×	9	×			×	
	15		54		25			9
	6		2		5			9
×		×		×		u art	× -	
	36 exe		18		35			0
	8			72	6			6
×	X - è	×	3	×		× 80	×	7
	72		18		48		br.i	
	1-		8		9			47
×		×		×		6 0	×	9
	12		0		45		×	



#### Find the product:



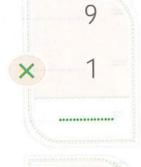






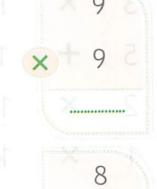






X

4





	1
×	9

	9	
×	10	

#### Lessons 52,53



#### Find the results:



#### Match the equal products:

2 × 9)

3 × 8

2 × 4

2 × 8

6 × 6

9 × 0

5 × 6

3 × 4

4 × 5

5 × 8

3 × 3

9 4 × 6

3 × 6

4 × 4

1 × 8

 $5 \times 0$ 

4 × 9

2 × 6

6 × 5

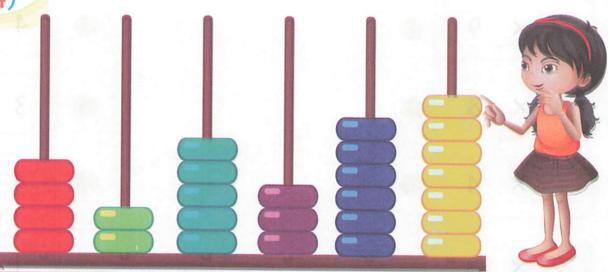
1 × 9

2 × 10

4× 10

Chapter (6) Lesson The place Value

(54)



Number	4	2	5	3	6	7
Place value	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
Value	400000	20000	5000	300	60	7

#### Complete:

- 3 Ones
- 4 Tens
- 5 Hundreds
- 6 Thousands
- o 7 Ten thousands
- o 8 Hundred thousands
- = .....

51247



Write the place value and the value of 5 in the following as the example:



50

826543









#### Complete in the same pattern:

- 29500, 29600, 29700, .....,
- 3 23850, 23840, 23830, .....,
- 4 777777, 666666, 555555, .....,

### Lesson 54



### Complete the table as the example:

Number	Add 10	Add 100	Add 1000
2945	2955	3045	3945
3789	7		
63521		Name of the last o	
49803		100	200

Number	Subtract 10	Subtract 100	Subtract 1000
7821	7811	7721	6821
59435		VIICEZO TO	CX 2.4 CO 12
6872	44/	M W/	
48934			



#### Complete the table:

Number	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
29825						
365024	of the source	-1-5		(,0000.	3003	
567346	and the state of t	A 1 CONTRACTOR DOCUMENTS	, 29700,	0,29600	2950	19
349000			23.83.0	0.22840	79.90	
796001				11111		
625007	A Company Company	man or deliverage to L.	accide, d	7.66666		}



#### Write in standard form:

5 Thousands, 6 Hundreds, 4 Ones.

One hundred sixty-five thousand, three hundred fifteen.

Forty-seven thousand, twenty-five.

Fifty-seven thousand, one hundred fifty-three.



# Write in expanded form:

2 62549 = .....+ .....+ .....+

3 853123 = .....+ ....+ ....+ .....+ .....+ .....

4 393784 = .....+ .....+ .....+ .....+ .....

5 28504 = .....+ .....+ .....+ .....+ .....

6 934315 = .....+ .....+ .....+ .....+ .....

7 754624 = .....+ .....+ .....+ .....+ .....+ .....

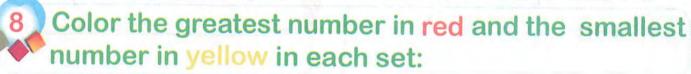
8 271532 = .....+ .....+ .....+ .....+ .....

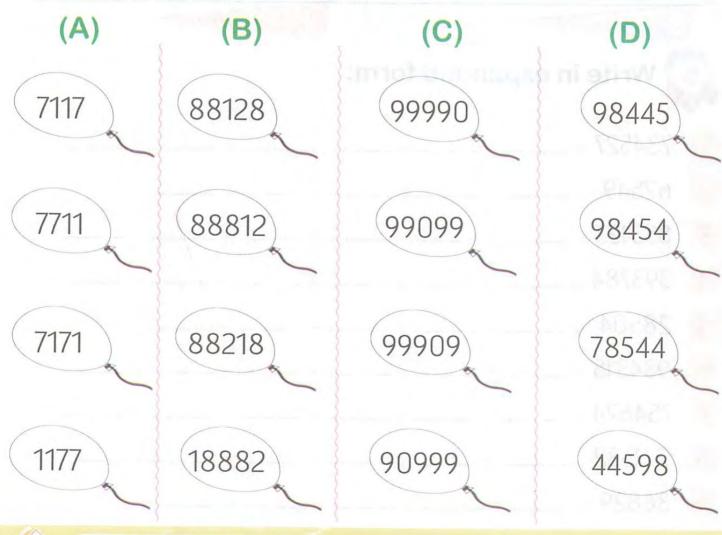
9 36829 = .....+ .....+ .....+ .....



# Write in standard form:

- 1 321 Thousands, 2 Hundreds, 9 Tens, 2 Ones
- 2 16 Thousands, 7 Hundreds, 3 Tens, 8 Ones
- 3 432 Thousands, 7 Tens
- 4 632 Thousands, 9 Ones
- 5 7 Hundreds, 5 Tens, 6 Ones
- 6 5 Thousands, 7 Ones







## Compare using (>,< or =): | vollotent spasmA







hundreds

500 tens









Five hundred thousand









Thousands







# 10 Arrange the following:

# 32512, 111111, 32519, 32517

Ascendingly:	, ,, ,, ,	•••••••••••••••••••••••••••••••••••••••
Descendingly:	······································	
29909	,20990,90000,29999	ANSW
Ascendingly:	, , , ,	
Descendingly:	······································	
73060	1,730061,730160,730016	ó
Ascendingly:	······································	N 2GK
Descendingly:	······································	
753246	, 99999 , 752346 , 754246	la ri sug
Ascendingly:	······································	
Descendingly:	······· , ······ , ········ , ·········	
111111,	100011,10001,110001	
Ascendingly:	······································	
Descendingly:	, ,, ,, ,, ,	

(55)

# Chapter (6) Addition strategies Lesson

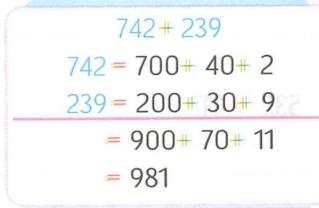


Find the sum: 742 + 239

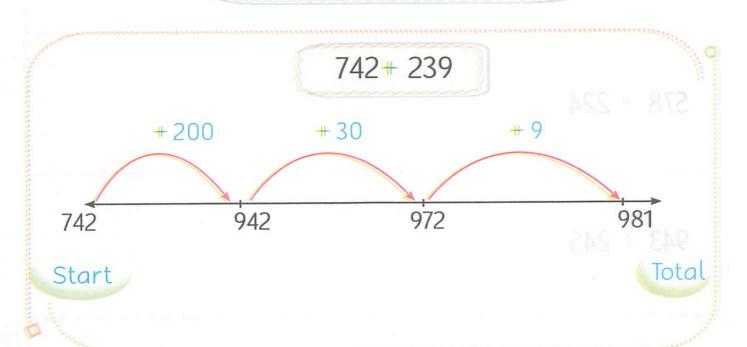
# Adding with regrouping strategy

Hundreds	Tens	Ones
7	4	2
2	3	9
9	10	<b>1</b> 01
9	8	1

# Decomposing numbers strategy



### **Number line strategy**





# Use one of addition strategies to find the sum:

Addition sentence	First strategy	Second strategy
89 + 175		
532 + 117		
223 + 315		
578 + 224	742 + 239	
943 + 245	972	742 942

Chapter (6) Lesson (56)

# Estimating the sum of two 3-digit numbers

Remember | barband treatment of \$72 to not undered | The extended |

# (1) Rounding to the nearest ten

If the digit in ones place is less than 5, replace it by 0 and write the other digits

724 → 720 351 → 350 If the digit in ones place is 5 or more, replace it by 0 and add one to the digit in the tens place

 $315 \longrightarrow 320$   $698 \longrightarrow 700$ 

# (2) Rounding to the nearest hundred

If the digit in tens place is less than 5, replace the ones and tens places by 0 then write the other digit

If the digit in tens
place is 5 or more,
replace the ones and
tens places by 0 and
add one to the digit in
the hundred place

651 → 700 981 → 1000



# 1 Choose the correct answer:

- 1 The estimation of 742 to the nearest ten (740,74,750)
- 2 The estimation of 998 to the nearest hundred (990,900,1000)
- 3 The estimation of 457 to the nearest ten (450, 45, 460)
- 4 The estimation of 376 to the nearest hundred (370,300,400)

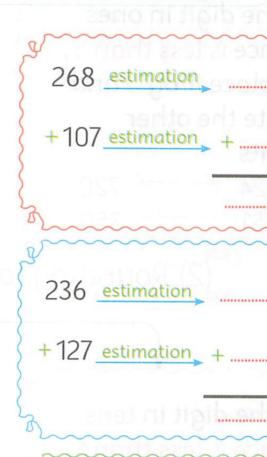


# Estimate the following sums as the example:

```
432 <u>estimation</u> 400
+ 621 <u>estimation</u> + 600
1000
635 <u>estimation</u>
```

+311 estimation

```
745 estimation + 217estimation + .....
```





# Find the sum:

4315 + 2413

3775 + 6400

6650 + 5400

Use place value picture strategy to find the difference

2800 + 1769

7345 + 4213

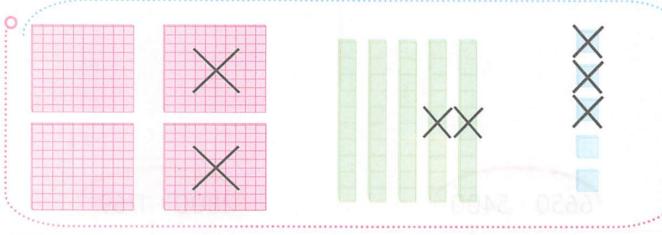
4231 + 2868

Chapter (6) Lesson (57)

# Subtractionstrategies

First strategy: Place value picture

Subtract: 455 - 223 = 232

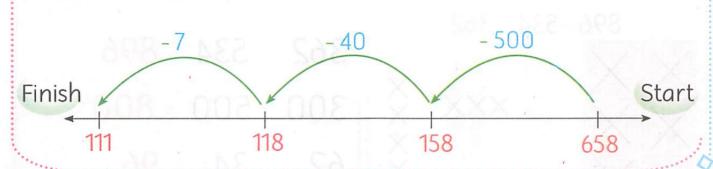




# Use place value picture strategy to find the difference:









# Use the number line strategy to find the difference:

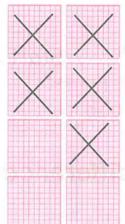
263

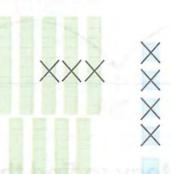


Use the place value strategy to find the difference then check by addition problem:

#### Subtraction problem

$$896 - 534 = 362$$





#### Addition problem to check

$$362 + 534 = 896$$

$$300 + 500 = 800$$

$$62 + 34 = 96$$

$$800 + 96 = 896$$



# Use one of subtraction strategies to find the difference then check by addition problem:

### Subtraction problem

Addition problem to check

Foncett right ment are then with Money

Ahmed distributed apples equally among friends

tow many apples did everyane take

Chapter (6) Lesson (58)

# Addition and subtraction story problems strategies



# Tick ( ✓ ) the right operation:

Mona bought 3 crayon boxes. Each box has 6 crayons.

How many crayons are there with Mona? addition subtraction multiplication division







Huda saved 18 pounds in a month. She saved 17 pounds in the second month.

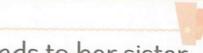
How many pounds did Huda save in the two months?

addition subtraction multiplication division



Ahmed distributed 8 apples equally among 4 friends. How many apples did everyone take?

addition subtraction multiplication division



Mona had 150 pounds. She gave 50 pounds to her sister.

How many pounds are left with Mona? addition subtraction multiplication division









### Solve the following problems:

A school has 875 students. And What is the difference between	
both schools?	HI HI TOWARD TOWARD TO THE TOWARD TO THE TOWARD TO THE TOWARD TOWARD TO THE TOWARD TOWARD TO THE TOWARD TOWARD TOWARD TOWARD TO THE TOWARD TOWARD TOWARD TOWARD TOWARD TOWARD TOWARD TOWARD TO THE TOWARD TOW

A library had 2475 books. 325 books were borrowed.

How many books are left in the library now?



A school has 743 boys and 598 girls.

How many students are there in the school?



In a library, there are 3 boxes of books. Each box has 200 books.
How many books are there in the library?
Omnia bought a vacuum cleaner for 2750 pounds. She paid 950 pounds. How much money must Omnia pay?
Ahmed saved 2785 pounds in a month. In the next month he saved 1395 pounds.  How many pounds did Ahmed save in all?

Chapter (6) Lesson (59)

# Capacity



Ruler is used for measuring lengths

Measuring lengths units

millimeter - centimeter - meter - kilometer

Clock is used for measuring time

Measuring time units

second - minute - hour - day week - month - year



What units are used for measuring liquid capacity?

Capacity is the amount of liquid a container can hold.

Units of capacity

Liter is used to measure big amounts Milliliter is used to measure small amounts (ml)



MANUEL (L) ALL







# Tick (✓) below the suitable unit:





liters milliliters liters milliliters



liters milliliters



milliliters liters



liters milliliters liters milliliters







liters milliliters liters milliliters









liters milliliters liters milliliters

# Relation between milliliter (ml) and liter (l)

Liter = 1000 milliliters
Liter can fill 10 glasses. Each glass can hold
100 milliliters



Which of the following has more capacity? Use (>, < or =):





Arrange from the smallest to the greatest according to the capacity:



# Tick (✓) under the suitable estimation:

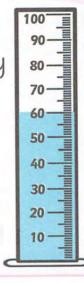


# Measuring capacity

#### Graduated cylinder

#### Note the following picture:

- Graduated cylinder is used to measure liquid capacity
- Lines refers to each milliliter
- ▶It has scale from 0 to 100
- The capacity of the liquid is 60 ml



# 1

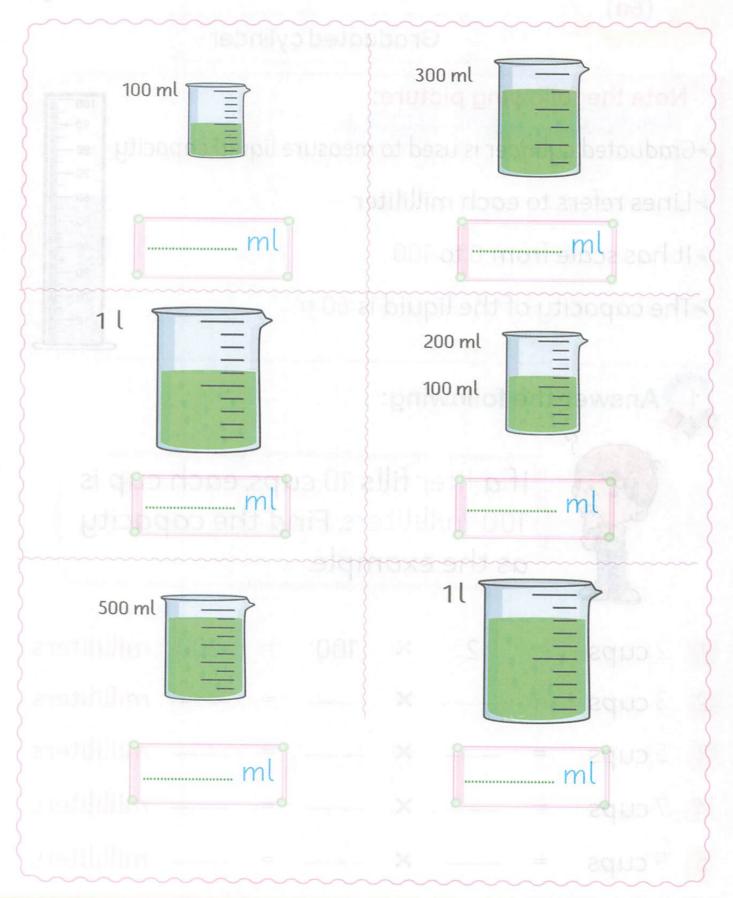
### Answer the following:



If a liter fills 10 cups, each cup is 100 milliliters. Find the capacity as the example.

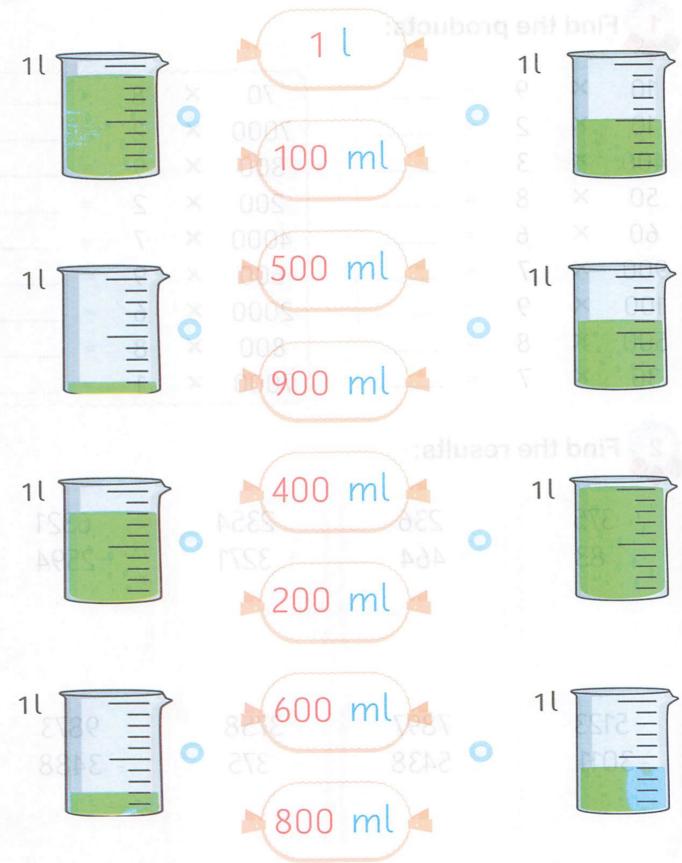


# Write the capacity of each container:





## Match:



# Review on Chapter Six



# Find the products:

10	×	9	=	
10	×	2	=	
400	×	3	=	***************************************
50	×	8	=	
60	×	6	=	
900	×	7	=	
100	×	9	=	
500	×	8	Annual States	
30	×	7	=	

70	×	8	=	
7000	×	2	=	
300	×	9	=	J
200	×	2	-	
4000	×	7	=	
600	×	9	=	7
2000	×	6	=	
800	×	8		
7000	×	1	=	



# Find the results:



# Circle the value of colored digit:

(4 - 400 - 4000)

ant mi sa (500 - 5 - 50) namwali

(600 - 6000 - 60)

(70 - 7 - 7000)

(40000 - 400 - 400000)

- 362452 (600 60000 6000)

## Write the place value of the colored digit:

98750

# Compare using (>, < or =):

100 tens

## Review



# Story problems: he besides to sulever of slowed

If a school has 653 boys and 598 girls.

How many students are there in the school?



A library had 3475 books. 625 books were borrowed.

How many books are left in the library?



# 7

# Put (✓) below the suitable estimation:













# Worksheet

	-	FOL.
1	4	10
- 6	7	y
1		1
1	1	1

#### Choose the correct answer:

$$1 8 \times 9 =$$
 (27 - 39 - 72)

$$3 500 \text{ cm} =$$
  $m (5-50-500)$ 

$$6 2000 \, \text{ml} = \underline{\qquad} \qquad (20 - 200 - 2)$$

# 2 Complete:

1 The factors of 4 are,,		,
--------------------------	--	---

2 4040 in word form	254 254	
---------------------	---------	--

-	101011111111111	1-9 W 3-1	7
3	The area of	1 N.A =	A
	69		1

# Write the place value and the value for the colored digit:

Number	Place value	Value
625316	north	amona of his chi
98271		
15674		
820974		

### Review



# Calculate area and perimeter:

7 cm 3 cm

Area = .....

Perimeter = ____

8 cm

5 cm

Area = ____

Perimeter = _____



# Firstly: Write the time on the digital clock:







# Secondly: Answer.

Samer wanted to distribute 50 pounds equally among 5 of his children.

How many pounds will each one take?